

CATALOGUE

OF THE

B I R D S

IN THE

BRITISH MUSEUM.

VOLUME IV.

LONDON:

PRINTED BY ORDER OF THE TRUSTEES.

1879.

CATALOGUE
OF THE
P A S S E R I F O R M E S,
PERCHING BIRDS,
COLLECTION
OF THE
BRITISH MUSEUM.

CICHLOMORPHÆ: PART I.

CONTAINING THE FAMILIES

CAMPOPHAGIDÆ AND MUSCICAPIDÆ.

BY
R. BOWDLER SHARPE.

LONDON:
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PREFACE.

THE Fourth Volume of the 'Catalogue of Birds in the British Museum' has been prepared by Mr. R. B. Sharpe, one of the Senior Assistants in the Zoological Department, and author of the three preceding volumes. It contains an account of all the species of *Campophagidae* and *Muscicapidae* known at present. From the author's account it would appear that nearly one fourth of the species known are still unrepresented in the British Museum; and the hope may be expressed that ornithologists and collectors will assist in rendering this part of the National collection more complete than it is at present.

ALBERT GÜNTHER,

Keeper of the Department of Zoology.

British Museum,
March 1879.

INTRODUCTION.

IN the present volume the second group of the Passeriformes or Perching-birds, containing the *Cichlomorphæ*, has been commenced, and the first two families, consisting of the Cuckoo-Shrikes and Flycatchers, have been described in detail. The total number of species enumerated is 539, of which 413 are represented in the Collection of the British Museum. A considerable proportion of the missing species will no doubt ultimately be found to be identical with others included in the present volume. In many cases, the absence of generic characters in the writings of the original describers of certain species has rendered it extremely difficult to assign to them their proper position with any degree of certainty.

Some idea of the way in which the number of described species of these families has increased during the last ten years may be gathered from the following facts, which also bear testimony to the rapid increase of the ornithological collection in the British Museum during the same period.

In 1869, when the last list of *Campophagidæ* was published by the late Mr. G. R. Gray, in the 'Hand-list of Birds,' the number of described species was 87, of which 72 were in the Museum collection, represented by about 250 specimens.

In the present year the number of described species is 148, and of these 127 are in the collection, represented by 514 specimens.

The number of described species of *Muscicapidæ* in the year 1869

appears to have been 253, and the Museum contained 194 of these, represented by 958 specimens.

In the present volume 391 species of Flycatchers are described; and of these there are 316 in the collection of the British Museum, represented by 2006 specimens. This great increase in the number of examples has taken place, notwithstanding that a great many deteriorated specimens have been eliminated from the collection.

The author has once more the pleasing duty of thanking the numerous friends and fellow labourers who have given him more and more assistance every year. It would have been scarcely possible to have completed the present volume in the time it has occupied, on account of the large number of species recently discovered in the Papuan islands, had not Count Salvadori brought with him to England, and placed in the author's hands, the entire series of specimens belonging to the Civic Museum of Geneva, including the types of all the species lately described by him. Dr. A. B. Meyer has likewise most kindly sent over all the specimens collected by him during his voyage in Papuasia, containing the types of many species unrepresented in collections in this country. During a recent visit to Leyden the author received the greatest assistance from Professor Schlegel, who gave every facility for the study of the large collections contained in the Museum of that city.

The Museum is indebted for presents to the following gentlemen:— Lord Lilford, Capt. Stackhouse Pinwill, Capt. G. H. T. Marshall, Governor Ussher, C.M.G., Colonel Sturt, Lieut. H. Trevelyan, Major Hayes Lloyd, Mons. E. Pierre, Capt. Vincent Legge, Henry Seebohm, Esq., and L. Mandelli, Esq.

The special thanks of the author for valuable assistance and loan of specimens are due to the late Marquis of Tweeddale, Prof. Peters, John Gould, Esq., P. L. Selater, Esq., Professor Newton, Osbert Salvin, Esq., F. DuCane Godman, Esq., Prof. Alphonse Milne-Edwards, Dr. Otto Finsch, A. O. Hume, Esq., C.B., Baron A. von Hügel, Capt. Shelley, Eugene Oates, Esq., Prof. Barboza du

Bocage, E. P. Ramsay, Esq., Messrs. Godeffroy, H. J. Elwes, Esq., and Howard Saunders, Esq.

As in the former volumes, the affixes to the names of the persons from whom the specimens were obtained may be explained as follows :—“[P.]” means “Presented by :” “[C.]”=“Collected by ;” “[E.]”=“Obtained by exchange.” Where none of these signs are used, the specimens were purchased. In some cases the sexes of the specimens are enclosed in brackets, as [♂]. This is to indicate that although the author has no doubt in his own mind that the specimen is a *male*, the label attached to the individual bears no indication of the sex.

R. BOWDLER SHARPE.

British Museum,
Feb. 19, 1879.

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CATALOGUE

OF

B I R D S.

Order II. PASSERIFORMES. (Vol. iii. p. 1.)

Suborder I. PASSERES.

Group I. COLIOMORPHÆ.

Fam. V. PRIONOPIDÆ. (Vol. iii. p. 270.)

In the course of the examination of the families described in the present volume, I have come to the conclusion that two genera at least should belong to the Prionopidæ, and not to the families in which they are generally placed. These are the genera *Cochoa* and *Phæornis*, the former placed near *Niltava* (Muscicapidæ), and the latter in *Eopsaltria* (Laniidæ) by the late Mr. G. R. Gray.

The genus *Cochoa* must be inserted immediately after *Grallina* (Cat. B. iii. p. 272) and between that genus and *Tephrodornis*; and the key on p. 270 must be modified as follows:—

- a. Distance between the primaries and the secondaries greater than the length of the tarsus.
- a'. Wing short or moderate, falling short of the tip of the tail by more than the length of the culmen; no eye-wattle.
- a". Tail square or slightly rounded, shorter than the wing.
- a'''. First primary moderate; second primary longer than the secondaries.
- a⁴. Bill narrow, measuring at gape less than the middle toe without claw..... GRALLINA.
- b⁴. Bill broader, measuring at gape as much as middle toe without claw..... COCHOA.

The following will be the synonymy and description necessary to add in the case of the last-named genus:—

COCHOA.

| | Type. |
|--|--------------------|
| Cochoa, <i>Hodgson, J. A. S. B. v. p. 359 (1836)</i> | <i>C. viridis.</i> |
| Oreas, <i>Temm. 1838 (teste Gray)</i> | <i>C. azurea.</i> |
| Prosorinia, <i>Hodgson, J. A. S. B. x. p. 28 (1841) (nom. emend. pro Cochoa)</i> | <i>C. viridis.</i> |
| Xenogenys, <i>Cabanis, Mus. Hein. Th. i. p. 54 (1850)</i> | <i>C. azurea.</i> |

Bill of *Cochoa purpurea*.

Range. Himalaya Mountains; Fokien province, China; Java.

Key to the Species.

- a. Centre tail-feathers blue, tipped with black; wings with a speculum formed by the light blue bases to the outer webs of the primaries.
 - a'. Back green; head cobalt *viridis*, p. 2.
 - b'. Back purplish brown; head lavender-grey..... *purpurea*, p. 3.
- b. Centre tail-feathers dark blue, but not tipped with black; wings blackish, the feathers edged with blue, but not forming a conspicuous speculum *azurea*, p. 4.

1. *Cochoa viridis*.

Cochoa viridis, *Hodgs. J. A. S. B. v. p. 359; Blyth, J. A. S. B. xv. p. 313; Gray & Mitch. Gen. B. i. p. 280, pl. lxxviii.; Blyth, Cat. B. Mus. A. S. B. p. 194; Gray, Cat. Mamm. &c. Népal Coll. Hodgs. p. 96; Gould. B. Asia, part i.; Jerd. B. Ind. ii. p. 243; Swinhoe, Ibis, 1868, p. 354; Gray, Hand-l. B. i. p. 325, no. 4873; Swinh. P. Z. S. 1871, p. 374; David & Oust. Ois. Chine, p. 214; Inglis, Stray F. 1877, p. 37.*

Prosorinia viridis, *Hodgs. J. A. S. B. xii. p. 450; Bp. Consp. i. p. 350.*

Adult. General colour above green, the feathers of the back and scapulars with black tips, rather broader on the least and median wing-coverts, which are like the back; greater coverts green, broadly tipped with black, and having an external margin of pale silvery blue; primary-coverts black, externally silvery blue for about half their length; quills black, silvery blue along the outer web at its base, the secondaries at the extreme basal part ochraceous brown; centre tail-feathers slaty blue, broadly tipped with black, the next feathers black, slaty blue along the greater part of the outer web, the outer feathers entirely black; crown of head cobalt-blue, deeper blue on the nape and hind neck; feathers in front of the eye

blackish; ear-coverts dark blue; cheeks and under surface of body bluish green, shaded with cobalt on the breast, the under tail-coverts greener; under wing-coverts green, the greater ones near the edge brown; quills brown below, lighter along the inner web; "bill black; legs fleshy brown; iris brown" (*Jerdon*). Total length 11 inches, culmen 0·85, wing 5·4, tail 4·6, tarsus 1·1.

Hab. Eastern Himalayas; Fokien, China.

a. Ad. sk. Nepal. B. H. Hodgson, Esq. [P.].

2. *Cochoa purpurea*.

Cochoa purpurea, *Hodgs. J. A. S. B.* v. p. 359; *Blyth, J. A. S. B.* xv. p. 313; *Gray, Gen. B.* i. p. 280; *id. Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 96; *Blyth, Cat. B. Mus. A. S. B.* p. 195; *Gould, B. Asia*, part i.; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 390; *Jerdon, B. India*, ii. p. 243; *Gray, Hand-l. B.* i. p. 325, no. 4872. *Proserpinia hodgsoni*, *Blyth, J. A. S. B.* xi. p. 182. *Proserpinia purpurea*, *Hodgs. J. A. S. B.* xii. p. 450, cum fig.; *Rp. Causp.* i. p. 350.

Adult male. General colour above purplish brown, the wing-coverts like the back, the greater series slightly washed with lavender-grey on the outer web; bastard plumes lavender-grey; primary-coverts black, lavender-grey at base; quills blackish, lavender at base of outer web of the primaries and for a good part of the same on the secondaries, the inner secondaries purplish brown like the back; tail lavender-grey, black at tip, the inner webs of the outer feathers blackish; head and nape lavender-blue; lores, sides of head, sides of face, and cheeks black, extending behind the nape in the shape of a fringe; under surface of body purplish brown, including the under wing-coverts and axillaries; "bill and legs black; iris dark brown" (*Jerdon*).

Adult female. Different from the male. Dark ochraceous brown above and below; wings and tail as in the male, but the lavender-grey of the quills much paler and overshadowed with the ochraceous brown of the back; the secondaries entirely like the back, with indistinct shading of grey, the tips black; crown paler than in the male, the sides of the head black, encircling the nape. Total length 11 inches, culmen 0·8, wing 5·55, tail 4·4, tarsus 1·1.

Nestling. Brown like the female, varied with ochraceous streaks and spots down the centre of each feather, the wing-coverts having large ovate drops at their ends; head mottled with whitish lavender spots on the feathers; throat ochraceous buff; remainder of under surface pale ochraceous buff, deeper on the abdomen, all the feathers edged broadly with dusky brown, the under tail-coverts brown, longitudinally centred with pale ochraceous.

Hab. Himalaya Mountains.

| | | |
|-----------------|------------|--------------------------------|
| a-c. ♂ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| d, e. ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| f. Pull. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| g. ♀ ad. sk. | Nynee Tal. | Capt. Stackhouse Pinwill [P.]. |
| h. ♂ ad. sk. | N. India. | |

3. *Cochoa azurea*.

Turdus azureus, *Temm. Pl. Col.* ii. pl. 274.

Ixus azureus, *Temm. tom. cit. Tabl. Méth.* p. 15.

Oreos azureus, *Temm. (teste Gray), Bp. Consp.* i. p. 350.

Cochoa azurea, *Gray, Gen. B.* i. p. 280; *id. Hand-l. B.* i. p. 325, no. 4874.

Xenogenys azurea, *Cab. Mus. Hein. Th.* i. p. 54.

Adult female. General colour above dull blue, the head greyish azure, the wing-coverts and quills blackish externally, washed with greyish cobalt; ear-coverts dull greyish azure, like the crown; lores dusky brown; under surface of body amber-brown, washed with purplish blue on the abdomen and under tail-coverts; under wing-coverts brown, like the breast; the edge of the wing blue; tail-feathers blackish, washed externally with dull azure. Total length 9·5 inches, culmen 0·7, wing 4·65, tail 4·2, tarsus 1·05.

Adult male. Like the female, but somewhat richer blue, and having the entire under surface deep purplish blue without any brown on the throat. Total length 9 inches, wing 4·75, tail 4·2, tarsus 1·05.

Obs. A young bird from Java is dull bluer-black above, without any lighter azure-blue on the head, the wing-coverts and quills only being externally brighter blue; on the throat and chest are remains of mottled plumage, the feathers orange-buff with black edges.

Hab. Java.

| | | |
|--------------------------|----------|---------------------------|
| <i>a, b.</i> ♂ ♀ ad. sk. | W. Java. | A. R. Wallace, Esq. [C.]. |
| <i>c.</i> Jun. sk. | W. Java. | A. R. Wallace, Esq. [C.]. |

The table in the 'Catalogue of Birds,' vol. iii. p. 271, must also be modified for the reception of *Phœornis* as follows, the second section of the Prionopidæ beginning:—

- b*¹. Inner toe (without claw) shorter than, or equal to, the hind toe (without claw).
- c*¹. Nostrils exposed and not hidden by bristles.
- d*¹. Culmen much longer than hind toe or claw PINAROLESTES.
- e*¹. Culmen not exceeding the length of hind toe and claw.
- a*⁷. Second primary longer than the secondaries.
- a*⁸. Wings long, the distance between the tips of the quills and the tail less than the tarsus; nostrils situated in a wide oval groove. PHÆORNIS.
- b*⁸. Wings short, falling short of end of tail by more than the length of tarsus; nostrils situated in a somewhat rounded groove BRADYORNIS.
- b*⁷. Second primary equal to the secondaries CUPHOPTERUS.
- a*⁹. Nostrils entirely hidden by plumes { FRASERIA.
HEMPTUS.

At page 302 of the previous volume would be placed, therefore :—

10a. PHÆORNIS.

Phæornis, *Sclater, Ibis*, 1859, p. 327 ^{Type.} *P. obscura.*



Bill of *Phæornis obscura*, to show position of nostrils.

Range. Confined to the Sandwich Islands.

1. *Phæornis obscura.*

Dusky Flycatcher, *Lath. Gen. Syn.* ii. pt. 1, p. 344.

Muscicapa obscura, *Gm. S. N. i.* p. 945 (*ex Lath.*); *Gray, Gen. B.* i. p. 263.

Tænioptera obscura, *Cass. U.S. Expl. Exp.* p. 155, pl. 9. fig. 3; *Dole, Pr. Bost. Soc. N. H.* xii. p. 300.

Chasiempis obscura, *Hartl. Arch. f. Naturg.* 1852, p. 133.

Phæornis obscura, *Sclater, Ibis*, 1859, p. 327, et 1871, p. 360; *id. P. Z. S.* 1878, p. 347.

Eopsaltria (Chasiempis) obscura, *Gray, Cat. B. Trop. Isl. Pacific Ocean*, p. 22.

Eopsaltria obscura, *Gray, Hand-l. B.* i. p. 390, no. 5926.

Adult male (Hilo, Owhyhee: *J. Murray, Voy. of H.M.S. 'Challenger'*). General colour above dusky olive-brown, greyer on the forehead and fore part of crown; wing-coverts and primary-coverts dark brown, edged with the same colour as the back; quills dark brown, broadly washed with olive-brown externally, and inclining to rufous-brown near the bases; tail brown; lore, feathers in front of eye, and fore part of cheeks a little more rufous-brown; feathers below the eye and ear-coverts dull olive-brown; cheeks and under surface of body ashy grey, the vent and under tail-coverts white; under wing-coverts ashy grey shaded with brown; quills dusky brown below, fulvescent near the base of the inner web. Total length 7·2 inches, culmen 0·7, wing 4·35, tail 3·2, tarsus 1·3.

Adult female. Similar in colour to the male. Total length 6·6 inches, culmen 0·7, wing 4, tail 2·9, tarsus 1·3.

Hab. Sandwich Islands.

Order PASSERIFORMES.

Group II. CICHLOMORPHÆ.

Wing with ten primaries, the first more or less markedly reduced in size; angle of the chin shortened, and not reaching as far as the line of the anterior margin of the nostril; claw of middle toe oblique; rectal bristles generally present.

Bill notched or gryanian (Illiger), *i.e.* with the culmen nearly straight, bent at the end in an arched curve, acuminate, generally incised at the sides; nostrils placed low, nearer to the cutting-edge of the mandible than the culmen.

Cf. Sundevall, *Av. Meth. Tent.* p. 3.

With the present group commences an account of the Thrush-like Passeres, the difficulties in classifying which are not likely to be exaggerated by any one who attempts the task. As already stated in this work, the system of classification here adopted is founded on that of the late Prof. Sundevall, who, however, admits (*Av. Meth. Tent.* p. lviii) that the divisions he proposes for the *Cichlomorphæ* are purely artificial. I have endeavoured to modify his arrangement; but in attempting to draw a hard-and-fast line between groups which nature has connected by intermediate forms, the difficulty of dealing with the connecting links has to be faced. I have preferred to accept a line which is capable of definition, even in cases where forms, apparently nearly allied, must be separated, being convinced that any line, wherever drawn, must be open to the same objection. In cases where two great groups are separated by both internal and external characters, and the connecting forms exhibit the internal characters of the one along with the external characters of the other, it seems to me that, in a classification of birds' skins in a museum it is obvious that the intermediate forms should be thrown into the series with which they correspond in *external* characters. The second great difficulty which I have had to meet has been that of bringing groups of birds having lateral affinities to adjacent groups into a linear arrangement—a difficulty similar to that of attempting to make such a list of the countries of Europe as shall place them correctly in geographical relation to each other. It is obvious that this can only be done by occasionally making a fresh start.

The characters here given, therefore, to the Turdiform families, which appear to follow one another in a natural sequence, cannot be considered exhaustive, but represent those which seem to me the salient points peculiar to each.

Synopsis of Families.

- A. *Shafts of rump-feathers stiffened*; plumage soft; bill rather stout, rather widened at the base, the nostrils hidden by nasal plumes **Campophagidæ**, p. 7.

- B. *Bill broadened and rather flat, generally furnished with numerous rictal bristles; culmen keeled* **Muscicapidæ**, p. 111.
- C. *Bill slender, but rather wide and depressed; wing long and flat, with a very small bastard primary not more than half the length of the second, the latter generally longer than the secondaries. Composed of birds generally migratory.* **Turdidæ**.
- D. *Bill much as in preceding family; wing rounded and short, concave, so as to fit close to the body, the birds contained in this family being generally of limited migration* **Timeliidæ**.
- E. *Bill semi-raptorial, very strong, rather stout, slightly compressed and toothed near the tip; nostrils hidden by bristles as a rule; plumage dense* **Laniidæ**.
- F. *Bill short and obtuse, not toothed; nostrils hidden by bristles; plumage soft and lax* **Paridæ**.

Family CAMPOPHAGIDÆ.

Shrike-like birds of soft plumage: the feathers of the lower back and rump with stiffened shafts in most of the genera*. Bill for the most part stout, moderately hooked and moderately notched, generally thick at the base, rather widened; the nostrils hidden. Wings in most species lengthened, never short.

Cf. Sundevall, Av. Meth. Tent. p. 21.

Key to the Genera.

- a. Bill very large and stout, the culmen longer than the tarsus 1. **ARTAMIDES**, p. 8.
- b. Bill only moderately stout, the culmen equal to or shorter than the tarsus.
- a'. Tail forked.
- a''. Bill broad, measured at gape equal to the outer toe (without claw) 2. **CAMPOCHÆRA**, p. 21.
- b'. Bill narrower, measured at gape less than outer toe (without claw) 3. **PTEROPDOCYS**, p. 22.
- b. Tail rounded or only slightly emarginate, sometimes graduated.
- c'. Bill broad, measured at gape equal to the outer toe (without claw) 4. **GRACULUS**, p. 23.
- d'. Bill narrower, measured at gape less than outer toe (without claw).
- a'''. Bill long and thin, the culmen equal to the tarsus 5. **EDOLISOMA**, p. 42.

* *Synmorphus* is a slight exception to this rule, the shafts of the feathers being less stiffened.

- b*^m. Bill broader, the culmen less than the tarsus.
- a*^l. Tail very long, exceeding the tip of the wing by nearly three times the length of the tarsus.
- a*^s. An eye-wattle 6. *LOBOTUS*, p. 58.
- b*^s. No eye-wattle 7. *CAMPOPHAGA*, p. 59.
- b*^l. Wing very long, the distance between its tip and the end of the tail not twice the length of the tarsus.
- c*^s. Tarsus short; foot weak; tarsus less than middle toe and claw 8. *PERIEROCOTUS*, p. 70.
- d*^s. Tarsus long; foot stout; tarsus exceeding in length the middle toe and claw.
- a*^o. Wing much longer than the tail, exceeding it by as much as the length of the tarsus; under tail-coverts long, falling short of the tail by about twice the length of the culmen or less; stiffened shafts of rump-feathers very pronounced 9. *LALAGE*, p. 86.
- b*^o. Wing and tail about equal in length, the difference between them not so great as the tarsus; under tail-coverts short, the distance between them and the tip of the tail much more than twice the length of culmen; stiffened shafts of rump-feathers not very pronounced 10. *SYMMORPHUS*, p. 169.

1. **ARTAMIDES.**

Artamides, *Hartl. J. f. O.* 1865, p. 170. Type. *A. bicolor.*

Range. From the Andaman Islands eastwards through the Malayan peninsula and islands, as well as the Moluccas, to New Guinea, the New Hebrides group, and New Caledonia.

Key to the Species.

- a.* Without cross bars of black across the abdomen.
- a*^l. General colour uniform above and below; the under tail-coverts of the same colour as the breast, in rare instances whitish.

- a". Under wing-coverts leaden grey or slaty blackish.
- a^{'''}. Throat slaty grey like the breast.
- a⁴. Region of the eye and ear-coverts blackish.
- a⁵. Much larger; wing about 7·4 inches; under wing-coverts slaty grey like the breast . . . *caledonicus*, p. 10.
- b⁵. Smaller; wing about 6·4 inches; under wing-coverts blackish, much darker than the breast . . . *schistaceus*, p. 11
- c⁵. Smallest; wing about 5·5 inches; under wing-coverts slaty grey like the breast . . . *larvatus*, p. 11.
- b⁴. Region of the eye and ear-coverts light grey . . . *sumatrensis*, p. 12.
- b^{'''}. Throat, fore neck, and cheeks glossy greenish black . . . *pollens*, p. 13.
- b". Under wing-coverts and axillaries white.
- c^{'''}. Vent and under tail-coverts slaty grey like the breast . . . *personatus*, p. 13.
- d^{'''}. Vent and under tail-coverts white . . . *parvulus*, p. 14.
- c". Under wing-coverts and axillaries fawn-buff . . . *ceruleigriseus*, p. 15.
- d". Under wing-coverts and axillaries greyish cobalt like the rest of the under surface . . . *temmincki*, p. 15.
- b'. General colour not uniform, the colour of the under surface more or less different from the aspect of the upper, which is grey or blackish.
- e". Throat glossy black, extending on to the fore neck.
- e^{'''}. General colour above dark slaty grey, the black of the hind neck reaching onto the mantle; breast entirely grey, only the lower abdomen white: size large; wing about 6·65 inches . . . *magistrostris*, p. 16.
- f^{'''}. General colour lighter slate-colour, the mantle scarcely tinged with black; grey confined to the breast below, leaving the entire abdomen white: size smaller; wing about 6·45 inches . . . *atriceps*, p. 16.
- f". Throat grey or white.
- g^{'''}. Back black like the head; the lower back, rump, and upper tail-coverts pure white, as also the entire under surface of the body . . . *bicolor*, p. 17.
- h^{'''}. Upper surface entirely grey, the nasal plumes, lores, feathers round the eye, and chin black . . . *fortis*, p. 18.
- b. With the lower breast and abdomen barred across with black and white.
- c'. Throat and chest uniform grey.

- g". Lower back, rump, and upper tail-coverts barred with black and white like the abdomen.
- i". Lores and feathers round the eye black *striatus*, 2nd pl., p. 18.
- k". Lores and feathers round the eye grey, with no black on the face at all *sumatrensis* ♀, p. 12.
- h". Lower back and rump uniform with the rest of the upper surface and not barred; ear-coverts black like the lores and feathers above the eye *dobsoni* ♂, p. 20.
- d. Throat and chest barred with black and white like the rest of the under surface.
- ï". Lower back and rump barred with black and white.
- l". No black on the sides of the face .. *sumatrensis* juv., p. 12.
- m". Lores and feathers round the eye black *striatus* juv., p. 18.
- k'. Lower back and rump uniform with the rest of the upper surface *dobsoni* ♀, p. 20.

1. *Artamides caledonicus*.

Corvus cinereus, *Forster, Icon. incl.* no. 53.

New-Caledonian Crow, *Lath. Gen. Syn.* i. p. 377 (*ex Forster, Icon.*).

Corvus caledonicus, *Gm. Syst. Nat.* i. p. 367 (*ex Lath.*).

Pica cinerea, *Wagler, Syst. Av.* sp. 18 (*ex Forster*).

Corvus cinereus, *Forster, Descr. Anim.* p. 260.

Graucalus caesiuss, *Pucher. Arch. Mus.* vii. p. 323 (*nee Licht.*).

Gazzola caledonica, *Bp. Consp.* i. p. 383 (*nee Bp.* 1854).

Campephaga caledonica, *Gray, P. Z. S.* 1859, p. 162; *id. Cat. B. Trop.*

Ist. Pacific Ocean, p. 22; *id. Hand-l. B. i.* p. 337, no. 5090; *Marie,*

Actes Soc. Linn. Bordeaux, xxvii. p. 328; *Layard, Ibis*, 1878, p. 256.

Graucalus caledonicus, *Hartlaub, J. f. O.* 1861, p. 440.

Graucalus cinereus, *Layard, Ibis*, 1878, p. 273.

Adult male (Erromango). General colour above dark slaty grey with ashy-grey gloss, the wing-coverts like the back; quills ashy grey on the outer web, ashy brown on the inner one, and externally edged with a narrow margin of slaty grey, which is whitish on the outer edge of the primaries; tail-feathers black, the outer ones browner at the ends, which are narrowly tipped with an edging of white; plumes at base of forehead, feathers in front of and surrounding the eye, as well as those at base of lower mandible and base of chin black; entire under surface of body dark slaty grey, including the under wing-coverts and axillaries; greater series of under wing-coverts and quills below ashy grey, lighter along the edge of the inner web; "bill, legs, and feet black; iris yellowish white" (*L. C. Layard*); "iris whitish grey" (*J. Macgillivray*). Total length 14 inches, culmen 1.25, wing 7.4, tail 6.3, tarsus 0.35.

Adult female. Differs from the male in being lighter and more ashy grey, and in having the lores and feathers in front of eye dusky

and not black. Total length 14·2 inches, culmen 1·25, wing 6·8, tail 6·1, tarsus 1·2.

Obs. I have not been able to compare an adult male from New Caledonia with the male from New Hebrides. The females seem so exactly alike, that there is little doubt that both groups of islands are inhabited by the same species.

Hab. New Caledonia; New Hebrides.

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|-----------------------------------|---|-----------------------------|
| <i>a.</i> ♂ imm. sk. | Isle of Pines, New Caledonia, June 7, 1858. | J. Macgillivray, Esq. [C.]. |
| <i>b.</i> ♂ imm. sk. | Erromango, New Hebrides, Sept. 10, 1858. | J. Macgillivray, Esq. [C.]. |
| <i>c.</i> ♂ ad., <i>d.</i> ♀ imm. | Erromango. | J. Macgillivray, Esq. [C.]. |

2. *Artamides schistaceus*.

Graucalus temminckii, Wallace, *P. Z. S.* 1862, p. 342 (*nec S. Müll.*).

Adult [female]. Similar to *A. caledonicus* and *A. pollens*, but smaller, and having the feathers at the base of the nostrils, loreal plumes, and feathers in front of the eye dull blackish, not glossy black as in *A. pollens*. The grey colour of the body is lighter and more of an ashy grey than in the last-mentioned species. Total length 12·3 inches, culmen 1·05, wing 6·35, tail 5·7, tarsus 0·95.

Hab. Sula Islands.

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|-------------------|---------------|---------------------------|
| <i>a.</i> Ad. sk. | Sula Islands. | A. R. Wallace, Esq. [C.]. |
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3. *Artamides larvatus*.

Ceblepyris larvata, S. Müller, *Verh. Naturl. Geschied. Land- en Volkenk.* p. 190.

Campephaga larvata, Gray, *Gen. B.* i. p. 283; *id.* *P. Z. S.* 1861, p. 435; *Finsch, Neu-Guinea*, p. 172; *Gray, Hand-l. B.* i. p. 337, no. 5085.

Graucalus larvatus, *Bp. Consp.* i. p. 354; *Hartl. J. f. O.* 1864, p. 438.

Adult. General colour above dark slaty grey, the wing-coverts like the back; bastard wing black; primary-coverts and primaries black, externally edged with slaty grey, inclining to hoary grey towards the tips of the latter; secondaries black, externally slaty grey with hoary margins, the innermost secondaries slaty grey, black on the inner web; tail-feathers black, washed with grey near the base and tipped with ashy, more broadly on the outermost; lores and feathers at base of bill dusky, the plumes in front of and round the eye as well as the ear-coverts slaty black; cheeks and under surface of body light slaty grey, rather paler than the upper surface; thighs dark slaty; under wing-coverts and axillaries slaty grey, the quills ashy below, buff along the inner webs. Total length 10·5 inches, culmen 1·05, wing 5·5, tail 4·7, tarsus 0·95.

Adult female. Like the male. Total length 10 inches, culmen 1, wing 5·5, tail 4·3, tarsus 1.

Hab. Java*.

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| a. ♀ imm. sk. | Java. | Purchased. |
| b. c. ♂ ♀ ad. sk. | W. Java. | A. R. Wallace, Esq. [C.]. |

4. *Artamides sumatrensis*.

Ceblepyris novæ-guinææ, *S. Müller, Verh. Naturh. Geschied. Land-en Volkenk.* p. 190 (*nec Gm.*).

Ceblepyris sumatrensis, *S. Müll. t. c.* p. 190.

Graucalus fasciatus *Bp. Conspect. i.* p. 354 (*nec V.*); *Jerd. B. Ind. i.* p. 418; *Sclater, P. Z. S.* 1863, p. 218; *Hartl. J. f. O.* 1864, p. 444.

Graucalus concretus, *Hartl. J. f. O.* 1864, p. 445; *Walden, Ibis*, 1872, p. 371.

Campephaga sumatrensis, *Gray, Hand-l. B. i.* p. 337, no. 5077.

Campephaga concreta, *Gray, t. c.* p. 337, no. 5089.

Graucalus sumatrensis, *Salvad. Ucc. Born.* p. 150; *Tweedl. Ibis*, 1877, p. 312; *Sharpe, Tr. Linn. Soc. new series*, vol. i. p. 323; *Tweedl. P. Z. S.* 1878, p. 614.

Adult male (Sumatra, *A. R. Wallace*). General colour above light ashy or French grey, the upper tail-coverts hoary and the rump-feathers edged with hoary grey; wing-coverts like the back; bastard wing black; primary coverts and quills black, narrowly edged with ashy grey, including the white towards the tips; the secondaries ashy grey like the back, with hoary-grey margins; tail-feathers black, ashy brown at the tips, the centre feathers washed with ashy grey for the greater part of their length; lores, sides of face, and entire under surface of body light ashy grey like the back; no black on the face; the under tail-coverts paler and more hoary than the breast; under wing-coverts and axillaries ashy grey with white edgings, some of the wing-coverts with indistinct dusky grey bars; quills ashy grey below, whitish along the inner webs; "iris light lemon-yellow" (*A. Everett*). Total length 11·8 inches, culmen 1·05, wing 5·95, tail 4·5, tarsus 0·95.

Adult female. Differs from the male in having the breast and remainder of under surface barred with white and black, the bars about equal in breadth; the under tail-coverts white, with narrower and less frequent bars of black; the under wing-coverts and axillaries barred with white and black like the breast; rump and upper tail-coverts barred with black and white, the ground-colour of the feathers grey, plainer on the long under tail-coverts; quills plainly edged with white; tail-feathers black, narrowly tipped with white, with a subterminal line of black; quills ashy grey below, white along the inner web. Total length 11 inches, culmen 1, wing 5·7, tail 4·35, tarsus 0·95.

Hab. Indo-Malayan Region. Malacca, Sumatra, Borneo, Palawan.

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|-------------------|-------------------|---------------------------|
| a, b. ♀ ad. sk. | Sumatra, 1861. | A. R. Wallace, Esq. [C.]. |
| c, d. ♀ ad. st. | Sumatra. | Dr. Lidth de Jeude [C.]. |
| e, f. ♂ ♀ ad. sk. | Kessang, Malacca. | M. A. Bouvier [C.]. |

* References to this bird's occurrence in New Guinea are erroneous.

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|---|------------------------------|--------------------------|
| <i>g, h.</i> ♂ ad., <i>i.</i> ♀ ad. sk. | Lumbidan, N.W. Borneo. | Governor Ussher [U.]. |
| <i>k.</i> ♂ imm. 'sk.' | Puerto Princesa, Palawan. | Prof. J. B. Steere [C.]. |

5. *Artamides pollens*.

Graucalus pollens, *Salvad. Ann. Mus. Civic. Genov.* vi. p. 75; *id. P. Z. S.* 1878, p. 87.

Adult male (Ké Bandan, July 29, 1873, *Beccari*; type of species). General colour above dark slaty grey with a greenish-grey gloss, especially distinct on the crown and sides of the head; wing-coverts like the back, the bastard wing, primary-coverts, and quills blackish, washed with slaty grey on the outer web; tail black, indistinctly shaded with slaty grey on the edges of the quills, the outermost feathers tipped indistinctly with ashy grey; base of forehead, lores, feathers in front of and below the eye, sides of face, throat, and fore neck black distinctly glossed with green, the black shading off on the chest; remainder of under surface of body slaty grey with an ashy gloss; under wing-coverts and axillaries black with a greenish gloss; greater coverts and quills ashy below, lighter along the edge of the inner web; "bill, feet, and iris black" (*Beccari*). Total length 13·5 inches, culmen 1·15, wing 7, tail 5·8, tarsus 1·15. (*Mus. Civic. Genov.*)

Adult female (Ké Bandan, July 29, 1873, *Beccari*). Differs from the male in having no black on the throat and sides of the face, the feathers at the base of nostrils, lores, and plumes in front of the eye alone being black. Total length 13·5 inches, culmen 1·2, wing 6·95, tail 5·7, tarsus 1·15. (*Mus. Civic. Genov.*)

Hab. Ké Islands, Moluccas.

6. *Artamides personatus*.

Ceblepyris personata, *S. Müll. Verh. Naturw. Gesch. Land- u. Volkenk.* p. 190.

Campephaga personata, *Gray, Gen. B.* i. p. 283; *Finsch, Neu-Guinea*, p. 172; *Gray, Hand-l. B.* i. p. 366, no. 5066.

Graucalus personatus, *Bp. Consp.* i. p. 354; *Wallace, P. Z. S.* 1863, p. 485; *Hartl. J. f. O.* 1864, p. 438.

Adult male. General colour above slaty grey; the scapulars and wing-coverts, primary-coverts and primaries black, externally margined with slaty grey, the secondaries more broadly; tail-feathers blackish, washed with grey on the outer webs and tipped with lighter grey; a narrow frontal line, lores, and feathers above and below the eye, ear-coverts, sides of face, extending on to the sides of the lower neck, and entire throat black with a greenish gloss; remainder of under surface of body slaty grey, the axillaries and under wing-coverts pure white; quills ashy below, greyish white along the inner webs. Total length 12·5 inches, culmen 1·1, wing 6·4, tail 5·6, tarsus 1·05.

Adult female. Differs from the male in not having the throat and

sides of face black, only the chin, lores, and feathers above and below the eye being black; the under wing-coverts and axillaries buffy white. Total length 13 inches, culmen 1·05, wing 6·3, tail 5·7, tarsus 1.

Hab. Timor group of islands.

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|--------------------------|----------------------|--------------------------|
| <i>a, b.</i> ♂ ♀ ad. sk. | Semao Island, Timor. | A. R. Wallace, Esq. [C.] |
| <i>c.</i> ♀ ad. sk. | East Timor. | A. R. Wallace, Esq. [C.] |
| <i>d.</i> ♂ ad. sk. | Timor. | A. R. Wallace, Esq. [C.] |
| <i>e.</i> ♂ imm. sk. | Island of Solor. | A. R. Wallace, Esq. [C.] |

7. *Artamides parvulus*.

Graucalus parvulus, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 324.

Adult. General colour leaden grey; frontal margin, sides of head, and throat black, glossy; quills black, ashy below, the inner web decidedly paler, but scarcely margined with grey; the secondaries on the outer web and the wing-coverts altogether grey, uniform with the back; under wing-coverts white; two centre tail-feathers leaden grey, the rest black, above leaden grey towards the base, the outermost marked with a small leaden-grey spot at the tip; bill black; feet dusky. Total length 9·7 inches, culmen 1·0, wing 5·5, tail 4·25, tarsus 0·9. (*Salvadori*.)

Hab. Island of Halmahéra, or Gilolo, in the Moluccas.

This species, the type of which I have lately seen at Leiden, is closely allied to *A. personatus*, but much smaller.

8. *Artamides floris*.

Graucalus personatus, pt., *Wall. P. Z. S.* 1863, p. 485.

Adult [male]. General colour above bluish slate-colour, the wing-coverts like the back; bastard wing black; primary-coverts blackish, externally ashy grey with a narrow margin of white; greater coverts ashy grey, narrowly edged with white; quills blackish, externally washed with ashy grey and margined with white; tail black, the centre feathers washed with grey towards the base; no black on the forehead; in front of the eye a triangular dusky spot; feathers round the eye blackish, a shade of black also extending over the eye; cheeks and entire under surface of body dark ashy grey, becoming gradually lighter and purer grey on the breast; the vent and under tail-coverts pure white; under wing-coverts, axillaries, and inner lining of quills also pure white. Total length 13 inches, culmen 1·15, wing 6·7, tail 5·7, tarsus 1·05.

Adult [female]. Differs from the supposed male in being paler grey; the greater coverts and the quills externally edged with white, narrower on the primaries; lores and feathers on the side of the face dusky, but not blackish as in the male; lower abdomen, vent, and under tail-coverts, under wing-coverts and axillaries pure white, the breast and abdomen obscurely banded with dusky

grey. Total length 12·7 inches, culmen 1·15, wing 6·4, tail 5·4, tarsus 1·1.

Hab. Island of Flores.

a, b. Ad. sk.

Flores.

A. R. Wallace, Esq. [C.].

9. *Artamides cæruleigriseus*.

Campephaga cæruleogrisea, *Gray*, *P. Z. S.* 1858, p. 179; *id. Cat. B. New Guinea*, p. 32; *id. P. Z. S.* 1861, p. 435; *Rosenb. J. f. O.* 1861, p. 121; *Hartl. J. f. O.* 1865, p. 155; *Finsch, Neu-Guinea*, p. 171; *Gray, Hand-l. B. i.* p. 338, no. 5101.

Campephaga strenua, *Schl. N. T. D.* iv. p. 44; *Sclater, P. Z. S.* 1873, p. 697; *Meyer, Sitz. b. Akad. Wien*, lxi. p. 211.

Graucalus strenuus, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 771, x. p. 136.

Graucalus cæruleogriseus, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 324.

Adult female (type of species). General colour above bluish grey, brighter blue on the head, and especially on the forehead and over the eyes; bastard wing, primary-coverts, and quills black, the coverts edged with bluish grey, the secondaries blackish on the inner web, bluish grey on the outer, the innermost secondaries entirely bluish grey like the back; two centre tail-feathers bluish grey, the next on each side black, grey on the outer web, the remainder black, browner at the tips of the outer web, where they incline to whitish at the extreme end; feathers in front of eye dusky, forming a triangular patch; under surface of body bluish grey, a little duller than the back, the thighs brighter bluish grey; under wing-coverts and axillaries pale ochraceous fawn; quills ashy below, light fawn-colour along the inner webs; soft parts as in the male (*D'Albertis*). Total length 14·5 inches, culmen 1·4, wing 6·5, tail 6·5, tarsus 1·15.

Adult male (*Atam*, *D'Albertis*?). Differs from the female in being rather richer blue-grey, especially about the head and face; feathers at base of forehead behind the nostrils, lores, and feathers in front of the eye black, extending over the eye for more than half the latter; chin and a spot at base of lower mandible also black; "bill and feet black; iris chestnut" (*D'Albertis*). Total length 13 inches, wing 6·35, tail 6·3, tarsus 1·2. (*Mus. Civic. Genov.*)

Dr. Meyer procured a specimen at Rubi which seems to be younger, as it has the tail-feathers tipped with buffy white, and has the inner webs of the quills below pale fawn-buff.

Hab. Aru Islands, North-western New Guinea, island of Johi.

a. ♀ ad. sk.

Aru Islands.

A. R. Wallace, Esq. [C.].
(Type of species).

10. *Artamides temmincki*.

Ceblepyris temmincki, *S. Müller, Verh. Naturh. Gesch. Land- en Volkenk.* p. 191.

Campephaga temminckii, Gray, *Gen. B.* i. p. 283; *Finsch, Neu-Guinea*, p. 172; *Gray, Hand-l. B.* i. p. 337, no. 5081.
Graucalus temminckii, Bp. *Consp.* i. p. 354; *Hartl. J. f. O.* 1864, p. 446; *Walden, Tr. Z. S.* viii. pp. 68, 113, pl. xii.

Adult. General colour greyish azure, with more or less of a cobalt hue, especially on the wings and tail, the inner webs of the quills and tail-feathers being blackish; base of forehead, lores, and feathers in front of the eye blackish with a blue gloss; under surface of body azure-blue like the upper; under wing-coverts like the breast, the lower series and the underside of the quills ashy. Total length 12 inches, culmen 1, wing 5·95, tail 5·9, tarsus 0·95.

Dr. Meyer's specimen has white tips to the bastard wing and primary-coverts, and the inner secondaries edged with white.

Hab. Celebes.

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| a. Ad. st. | Celebes. | Purchased. |
| b. Ad. sk. | Celebes. | Dr. A. B. Meyer [C.]. |

11. *Artamides magnirostris*.

Graucalus magnirostris, Bp. *Consp.* i. p. 354 (*ex Forsten*); *Hartl. J. f. O.* 1864, p. 436; *Meyer, Sitz. b. Akad. Wien*, lxi. p. 505; *Salvad. Ann. Mus. Civic. Genov.* vii. p. 771.
Campephaga magnirostris, Gray, *P. Z. S.* 1860, p. 353; *Finsch, Neu-Guinea*, p. 171; *Gray, Hand-l. B.* i. p. 336, no. 5063.
Coracina magnirostris, Giebel, *Thes. Orn.* i. p. 774.

Adult male. General colour above slaty grey, purer grey on the rump and upper tail-coverts, the sides of the rump whiter; wing-coverts like the back; bastard plumes black; primary-coverts and quills black; the secondaries black, externally ashy grey, edged with lighter grey; centre tail-feathers dark grey, black at the tip, the rest of the tail black, with a narrow strip of ashy whitish, extending as a narrow rim to the inner webs, much broader and more ashy at the tip of the outer feather; head and neck all round black, extending on to the mantle above and forming a sharply defined line across the breast below; remainder of the breast light slaty grey, the abdomen and under tail-coverts pure white, the flanks washed with light slaty grey; thighs dark slaty grey; under wing-coverts and axillaries pure white; quills dusky below, ashy whitish along the inner web. Total length 13·7 inches, culmen 1·25, wing 6·65, tail 6·1, tarsus 1·05.

Hab. Gilolo, Ternate.

| | | |
|-----------------|---------|---------------------------|
| a, b. ♂ ad. sk. | Gilolo. | A. R. Wallace, Esq. [C.]. |
|-----------------|---------|---------------------------|

12. *Artamides atriceps*.

Cebilepyris atriceps, S. Müller, *Verh. Naturw. Gesch. Land- en Volkenk.* p. 190.
Campephaga atriceps, Gray, *Gen. B.* i. p. 283; *Finsch, Neu-Guinea*, p. 172; *Gray, Hand-l. B.* i. p. 337, no. 5084.

Graucalus atriceps, *Bp. Consp.* i. p. 354; *Hartl. J. f. O.* 1864, p. 437;

Walden, Tr. Z. S. viii. p. 68.

Coracina atriceps, *Giebel, Orn. Thes.* i. p. 774.

Adult male. General colour above light slaty grey, paler on the rump and upper tail-coverts; wing-coverts like the back; bastard plumes black; primary-coverts and quills black, narrowly edged with ashy grey; secondaries black, the outer webs grey with a narrow margin of lighter ashy grey; two centre tail-feathers dark ashy brown with black tips, the rest of the feathers black slightly tipped with ashy, the outer one most broadly and with an inner margined line of whitish; entire head and neck all round black, occupying the chest below, and extending a little way onto the mantle above; breast light bluish grey; entire abdomen and under tail-coverts pure white, the flanks washed with light bluish grey; thighs bluish grey; under wing-coverts and axillaries pure white; quills ashy below, white along the inner webs. Total length 12·5 inches, culmen 1·1, wing 6·45, tail 5·6, tarsus 1.

Hab. Ceram, ? Celebes.

a, b. ♂ ad. sk.

Ceram.

A. R. Wallace, Esq. [C.].

c. Jun. ? sk.

N. Ceram.

A. R. Wallace, Esq. [C.].

13. *Artamides bicolor*.

Ceblepyris bicolor, *Temm. Pl. Col.* iii. pl. 278; *S. Müller, Verh. Naturh. Geschied. Land- u. Volkenk.* p. 191.

Campephaga bicolor, *Gray, Gen. B.* i. p. 283; *id. P. Z. S.* 1860, p. 354; *Finsch, Neu-Guinea*, p. 172; *Gray, Hand-l. B.* i. p. 337, no. 5092.

Graucalus bicolor, *Bp. Consp.* i. p. 354.

Artamides bicolor, *Hartl. J. f. O.* 1865, p. 171; *Walden, Tr. Z. S.* viii. p. 70; *Salvad. Ann. Mus. Civic. Genov.* vii. p. 658; *Brüggem. Abhandl. nat. Ver. Bremen*, v. p. 72.

Adult male. General colour above black with a slight steel-green gloss; wings black, also glossed with steel-green on the outer webs; lower back, rump, and upper tail-coverts pure white; tail black, the outer feathers tipped with white, the base of all the feathers white, decreasing in extent towards the outermost, where the white is confined to the inner web; lores, feathers below the eye, and the ear-coverts black, the two latter parts varied with white spots; cheeks and entire under surface of body pure white, including the under wing-coverts and axillaries and the inner webs of the quills. Total length 12·6 inches, culmen 1·1, wing 6·7, tail 5·2, tarsus 0·95.

Adult female. Differs from the male in being grey above instead of black, and in having the throat and breast grey. Total length 12·3 inches, culmen 1·1, wing 6·8, tail 5·3, tarsus 1.

A younger male, also from Menado, differs from the male described above by being washed with grey, the secondaries broadly edged with white, and the tail-feathers tipped with white. Total length 11·7 inches, culmen 1·05, wing 6·5, tail 5·2, tarsus 0·95.

Dr. Meyer procured an undoubtedly young bird at Limbotto which

presented the same characters, and still retained part of the immature plumage in the shape of brown feathers edged with white on the head and back.

Hab. Celebes.

| | | |
|--------------------------|---------------------|---------------------------|
| <i>a, b.</i> ♂ ♀ ad. sk. | Menado, N. Celebes. | A. R. Wallace, Esq. [C.]. |
| <i>c.</i> ♂ jun. sk. | Menado, N. Celebes. | A. R. Wallace, Esq. [C.]. |
| <i>d.</i> ♂ ad. st. | Celebes. | Purchased. |

14. *Artamides fortis*.

Graucalus fortis, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 326.

Adult. General colour cinereous, paler below; nasal plumes, lores, region of the eye, and chin black; under tail-coverts ashy white; under wing-coverts white; quills dusky, the primaries slightly, the secondaries broadly margined with cinereous; two centre tail-feathers cinereous, the rest blackish, the outer two grey at the tip; bill and feet black. Total length 13·8 inches, culmen 1·3, wing 6·9, tail 5·9, tarsus 1·15. (*Salvadori*.)

Female. Similar to the male, but with the feathers in front of the eye rather dusky, and the under tail-coverts purer white. (*Salvadori*.)

Hab. Island of Bouru, Moluccas.

Obs. Described by Count Salvadori from specimens in the Leiden Museum, and distinguished by its larger size and by the general grey coloration of the under surface, which pervades the abdomen as well as the breast.

15. *Artamides striatus*.

Choucas de la Nouvelle Guinée, *Daubent. Pl. Ent.* iii. pl. 629; *Month.*

Hist. Nat. Ois. iii. p. 80.

New-Guinea Crow, *Lath. Gen. Syn.* i. pt. 1, p. 381.

Corvus striatus, *Boddl. Tabl. Pl. Ent.* p. 38 (*c.v. Daubenton*).

Corvus novæ guineæ, *Gm. Syst. Nat.* i. p. 371.

Coracina fasciata, *Vieill. N. Dict.* viii. p. 8.

Graucalus novæ guineæ, *Curier, Règne Anim.* i. p. 341 (1817); *Less.*

Man. d'Orn. i. p. 144.

Ceblepyris novæ guineæ, *Temm. Man. d'Orn.* i. p. lxii; *Rüpp. Mus.*

Senckenb. iii. p. 334.

Ceblepyris plumbea, *Wagler, Syst. Ac. art. Corvus*, *Afp.* sp. 4.

Graucalus lineatus, pt., *Lesson, Traité*, p. 349.

Graucalus dussumieri, *Lesson, tom. cit.* p. 349; *Jacq. et Pucher. Voy.*

Pôle Sud, *Zool.* iii. p. 65; *Pucher. Arch. du Mus.* vii. p. 363; *Blyth,*

J. A. S. B. xxx. p. 96.

Choucar de Dussumier, *Hombr. et Jacq. Voy. Pôle Sud, Atlas*, pl. 8. fig. 1.

Campephaga striata, *Gray, Gen. B.* i. p. 283; *id. Hand-l. B.* i. p. 337, no. 5076.

Graucalus lagumensis, *Bp. C. R.* xxxviii. p. 540; *Blyth, J. A. S. B.* xxx. p. 96; *Hartl. J. f. O.* 1864, p. 445.

Campephaga novæ guineæ, *Gray, P. Z. S.* 1858, p. 193; *id. Cat. B. New Guinea*, p. 58; *id. P. Z. S.* 1861, p. 435; *Finsch, New-Guinea*, p. 171.

Campephaga dussumieri, *Gray, Hand-l. B.* i. p. 336, no. 5070.

Campephaga lagunensis, *Gray, loc. cit.* p. 337, no. 5080.

Graucalus striatus, *Walden, Ibis*, 1873, p. 312; *id. Tr. Z. S.* ix. p. 175, pl. xxx. fig. 1; *Sharpe, Tr. Linn. Soc.* new series, i. p. 323; *Tweeddale, P. Z. S.* 1877, pp. 693, 759, 827, et 1878, pp. 108, 283, 380.

Corvus papuensis, *Von Kittl., Lütke, Voy. (Postels)*, iii. p. 326 (*nec Gm., teste Tweeddale*).

Adult male. Whole plumage of a dark plumbeous grey, the lores being jet-black; lower plumage somewhat paler than the upper, more especially that of the ventral region; a few of the upper tail-coverts and rump-feathers are fringed with pale grey (*Tweeddale*); "bill, legs, and claws black; iris pure lemon-yellow" (*A. Everett*).

Adult (female). Dark ashy grey above, the lores a little more dusky, as also the sides of the face; lesser and median wing-coverts a little darker than the back; greater coverts ashy grey; quills black, externally ashy grey, the inner secondaries almost entirely of this colour; lower back, rump, and upper tail-coverts barred with black and white, the feathers being grey tipped with white, before which is a subterminal bar of black; tail-feathers black, shaded with grey near the base; throat and chest ashy grey; remainder of under surface of body barred with black and white, the bars being of about equal width; thighs dark ashy grey; under wing-coverts and axillaries white barred with black, but more conspicuously than the breast; greater series of under wing-coverts and quills below ashy, with a very narrow edging of white along the inner web, the quills browner below towards the tips of the feathers; "iris crimson" (*A. Everett*). Total length 10·5 inches, culmen 1·1, wing 6·3, tail 4·4, tarsus 1.

Young male (Negros, Steere). Like the old female, but having the lores, feathers in front of the eye, on the sides of face, and chin black; lower back, as well as the rump and upper tail-coverts, more distinctly barred with black and white than in the female; general colour of the upper surface and throat and chest leaden grey, darker than in the female; feathers of upper breast leaden grey, narrowly tipped with white, before which is a narrow subterminal black bar; rest of under surface very broadly barred with black and white; quills below dark ashy grey; tail black, indistinctly tipped with dark grey, and narrowly edged with white at the tip, the outermost feathers ashy brown near the tip, which is white with a subterminal line of black. Total length 12·3 inches, culmen 1·15, wing 6·45, tail 4·6, tarsus 1·1.

Young (Zamboanga, Steere). Differs from the adult female and from the male in being barred with white and black on the whole under surface, excepting the lower abdomen, vent, and under tail-coverts, which are white; cheeks also barred with black and white; ear-coverts dark slaty grey, with narrow white shaft-streaks; quills ashy below, browner at tip and whitish along the inner web; outer tail-feathers white at tip, with a subterminal black bar; "iris dirty brownish white" (*A. Everett*). Total length 10·5 inches, culmen 1·1, wing 5·85, tail 4·6, tarsus 1·05.

Hab. Philippine Islands.

| | | |
|---------------|---------------------------------------|--------------------------|
| a. ♂ imm. st. | [Philippines.] | E. Wilson, Esq. [P.]. |
| b. ♀ ad. sk. | Philippine Islands. | M. Verreaux. |
| c. ♂ ad. sk. | Cataguan, Luzon. | Hugh Cumings, Esq. [C.] |
| d. ♂ imm. sk. | San Bernardino, Negros, Jan. 1875. | Prof. J. B. Steere [C.]. |
| e. juv. sk. | Zamboanga, Mindanao. | Prof. J. B. Steere [C.]. |

16. *Artamides dobsoni*.

Graucalus dobsoni, *Ball, J. A. S. B.* xli. p. 281; *id. Str. F.* 1873, 1873, p. 66; *Hume, t. c.* p. 310; *Walden, Ibis*, 1873, p. 312; *Hume, Str. F.* 1874, p. 206.

Adult male. General colour dark slaty grey, with a slight greenish-grey gloss; least and median wing-coverts like the back; greater coverts slaty grey, with margins of dark ashy grey; quills black; the secondaries with grey on the outer webs, the primaries narrowly margined with white; tail-feathers black, tipped narrowly with whitish; a narrow frontal line; lores and feathers in front of the eye, feathers above the eye, sides of crown, cheeks, and ear-coverts black, with a greenish gloss; chin blackish at base; throat and chest dark grey; rest of under surface white, barred across with black transverse lines, wider apart and broader on the under tail-coverts; under wing-coverts white, barred with the same black cross lines as the breast; "bill, legs, and feet black; iris crimson lake" (*Hume*). Total length 11·3 inches, culmen 1·1, wing 6·3, tail 5, tarsus 0·95.

Adult female. Differs from the male in having the entire under surface from the chin downwards barred with blackish cross lines, instead of the throat and breast being grey; thighs slaty black. Total length 12 inches, culmen 1·1, wing 6·05, tail 5·35, tarsus 0·95.

Young. "Whole chin, throat, and breast strongly tinged with ferruginous, the tertiaries, secondaries, and later primaries comparatively broadly margined and tipped with pale rufous or rufescent white; the tertiaries and later secondaries have also a rufous spot near the point, and exhibit traces of having been barred; some of the upper tail-coverts, some of the scapulars, and a few of the back-feathers still remain rufous barred with blackish brown, peeping out amongst the new iron-grey feathers; a dull rufous supercilium running from the nostrils over the eyes; the lores are dusky, with tiny white spots, and the cheeks also are dusky, the feathers white-shafted, and, from what I can judge, the whole upper surface of the nestling bird must be banded rufous and dark brown. In other specimens further advanced the ferruginous patch is smaller and confined to the breast; no banded feathers remain on the upper surface, which is like that of the adult, and the conspicuous rufous margins of the quills have become narrower and paler." (*Hume*.)

Hab. Andaman Islands.

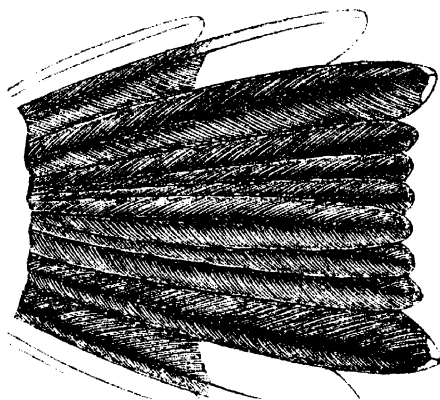
a, b. ♂ ♀ ad. sk. Port Blair, South Andamans, R. B. Sharpe, Esq. [P.].
July 1873 (*Capt. Wimberley*).

2. CAMPOCHÆRA.

2. CAMPOCHÆRA.

Campephaga, *p.t.*, *auct. recent.*

Campochæra, *Salvad. MSS.*



Tail of *Campochæra sloetii*.

Range. Confined to New Guinea.

1. *Campochæra sloetii*.

Campephaga sloetii, *Schlegel, N. T. D.* iii. p. 253; *Gray, Hand-l. B.* i. p. 339, no. 5126; *Meyer, Sitz. b. Akad. Wien*, lxx. p. 125;

Salvad. and D'Albert. Ann. Mus. Civic. Genov. vii. p. 821.

Campephaga aurulenta, *Selater, P. Z. S.* 1873, p. 692, pl. 54; *Meyer, P. Z. S.* 1874, p. 419. •

Lalage? *sloetii*, *Salvad. Ann. Mus. Civic. Genov.* x. p. 137.

Adult male (type of *C. aurulenta*). General colour above golden yellow, inclining to olive on the scapulars; lower back, rump, and upper tail-coverts brilliant golden yellow; wing-coverts black with a greenish gloss, the median series narrowly tipped and the greater series broadly edged with white; primary-coverts and quills black with an obscure narrow edging of green; the inner secondaries margined with white, slightly tinged with yellow on one or two feathers; tail-feathers black, obscurely margined with greenish and tipped with white, more broadly on the outer feathers; crown of head bluish grey; base of forehead, lores, sides of face, and ear-coverts, as well as the throat and fore neck, black with a greenish gloss; this black separated from the grey crown by an intervening band of white, which forms an eyebrow; remainder of under surface bright golden yellow; under wing-coverts and axillaries white, slightly tinged with yellow; quills ashy brown below, white along their inner webs; "bill and feet black; iris black" (*D'Albertis*). Total length 7.5 inches, culmen 0.5, wing 4.15, tail 3.8, tarsus 0.75. (*Mus. Civic. Genov.*)

Adult female (Mt. Epa, S.E. New Guinea, *D'Albertis*). Differs from the male in being of a less brilliant yellow, the mantle more shaded with olive, and the grey head being washed with yellow; sides of face, throat, and fore neck grey, instead of black as in the male, the feathers in front of and round the eye black, the ear-coverts also darker grey. Total length 7·8 inches, culmen 0·5, wing 4·3, tail 3·8, tarsus 0·75. (*Mus. Civic. Genov.*)

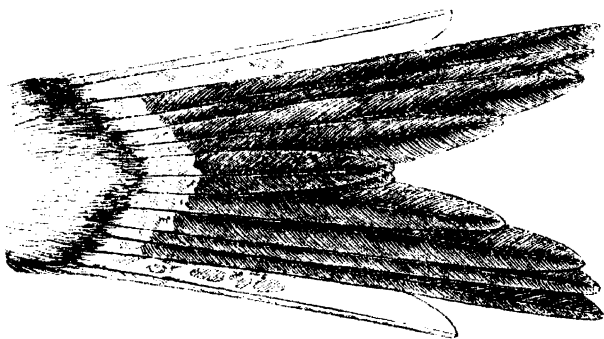
Hab. North-western and south-eastern New Guinea.

3. PTEROPODOCYS.

Type.

Pteropodocys, *Gould, Birds of Austr. folio, ii. pl. 59*

(1846) *P. phasianella*.



Tail of *Pteropodocys phasianella* (reduced).

Range. Confined to Australia.

1. *Pteropodocys phasianella*.

Graucalus phasianellus, *Gould, P. Z. S.* 1839, p. 142.

Cebilepyris maxima, *Rüpp. Mus. Senckenb.* iii. p. 28, Taf. iii.

Campephaga phasianella, *Gray, Gen. B.* i. p. 283; *id. Hand-l. B.* i. p. 337, no. 5093.

Pteropodocys phasianella, *Gould, B. Austr.* ii. pl. 59; *Bp. Consp.* i. p. 355; *Reichenb. Vög. Neuholl.* pp. 427, 283; *Harth. J. f. O.* 1864, p. 446; *Gould, Hand-l. B. Austr.* i. p. 199; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. pt. 2, p. 181.

Adult. General colour above French grey, the ear-coverts darker, as also the feathers round and in front of the eye, these darker portions varied with wavy cross lines of dull white; back, rump, and upper tail-coverts pure white, with narrow bars of black; least wing-coverts dark ashy grey; remainder of the wing black with somewhat of a greenish gloss, the outer primaries with a narrow edging of white; tail-feathers black, white at base, and narrowly tipped

with white, the outer feathers externally edged and broadly tipped with white; throat, fore neck, and chest grey, rather darker than the head and mantle; remainder of under surface white, narrowly barred with black, these bars disappearing towards the vent and lower abdomen, which, with the under tail-coverts, are pure white; thighs white, barred with black; under wing-coverts and axillaries white, as also the inner aspect of the quills: "bill and feet black, tinged with olive; irides buffy white" (*Gould*). Total length 13 inches, culmen 0·85, wing 7·65, tail 7, tarsus 1·45.

Adult female. Like the male.

Hab. Australia: Wide Bay district: New South Wales: Interior; Victoria: South Australia: West Australia (*Ramsay*).

| | | |
|-------------------|------------------------|-----------------------|
| <i>a.</i> Ad. st. | Interior of Australia. | Captain Sturt [P.]. |
| <i>b.</i> Ad. sk. | Australia. | Sir T. Mitchell [P.]. |

4. GRAUCALUS.

| | Type. |
|---|-----------------------|
| <i>Graucalus</i> , <i>Cuvier, Règne Anim.</i> p. 341 (1817) | <i>G. papuensis</i> . |
| <i>Ceblepyris</i> , <i>Cuvier, Règne Anim.</i> i. p. 348 (1817) | <i>G. canus</i> . |
| <i>Coracina</i> , <i>Cabanis, Mus. Hein. Th. i.</i> p. 62 (1850, <i>nec</i> <i>Vieill.</i>) | <i>G. melanops</i> . |
| <i>Ptiladela</i> , <i>Jacq. et Pucher. Voy. Pôle Sud, texte</i> , iii. p. 67 (1853) | <i>G. boyeri</i> . |
| <i>Cyanograucalus</i> , <i>Hartl. J. f. O.</i> 1861, p. 170 | <i>G. azureus</i> . |

Range. From Africa and Madagascar, through India and Ceylon, the Burmese countries, eastwards to the island of Formosa; throughout the Malayan Archipelago, the whole of the Moluccan and Papuan islands, Australia and Tasmania.

Key to the Species.

- a.* Without any cross bars of black or blackish grey on the abdomen; sometimes in young birds only faint indications; abdomen never regularly barred across.
 - a'.* General colour uniform below, the under tail-coverts of the same colour as the breast and throat; upper surface of exactly the same colour as the under surface.
 - a''.* Under wing-coverts orange-buff or chestnut, different from the breast, which is blue-grey.
 - a'''.* Under wing-coverts chestnut in male; ♀ with white lores *boyeri*, p. 25.
 - b'''.* Under wing-coverts fawn-colour or orange-buff; ♀ with grey lores *subalaris*, p. 26.
 - b''.* Under wing-coverts like the breast.
 - c'''.* General colour cindery grey, the chin grey; lores black in the male, grey in the female *cæsius*, p. 26.
 - d'''.* General colour azure-blue, tinged with cobalt, the chin and lores black *azureus*, p. 27.

- c''*. Under wing-coverts barred with black and white *arillaris* ♂, p. 27.
- b'*. Under surface of body particoloured and not entirely uniform (in those species which are nearly all white below the breast is shaded with grey), different from the upper surface.
- d''*. Throat black or dark slate-colour.
- e'''*. Size small; wing not exceeding 5·7 inches.
- a¹*. Head and neck all round black, the crown washed with ashy; rest of under surface below the black throat grey *cinereus*, p. 28.
- b¹*. Upper surface light grey; no black forehead; lores, sides of face, throat, and fore neck blackish slate-colour; rest of under surface white *pectoralis* ♂, p. 29.
- f'''*. Size larger; wing 7·7-8·1 inches: upper surface grey; forehead, feathers round the eye, sides of face, and throat black; fore neck and breast grey, shading into white on abdomen and under tail-coverts { *melanops*, p. 30.
parvirostris, p. 32.
- e''*. Throat grey or white.
- g'''*. Rump and upper tail-coverts white *leucopygius*, p. 33.
- h'''*. Rump and upper tail-coverts grey.
- a²*. With no black on the sides of the face, which are grey, as also the lores.
- a³*. Much larger; wing 6 inches: throat and breast grey; the abdomen, thighs, and under tail-coverts white *javanensis*, p. 33.
- b²*. Smaller: below entirely white, the lower throat and fore neck ashy grey *pectoralis* ♀, p. 29.
- d²*. Lores and region of the eye black or dusky.
- e²*. Chin darker than or quite as dark as the throat and fore neck; sometimes a blackish spot between the rami of the lower jaw.
- a⁴*. Under wing-coverts and axillaries white *macii*, p. 34.
- b⁴*. Under wing-coverts and axillaries buff *rex-piueti*, p. 35.
Chin white or whitish, contrasting with the greyish throat.
- c⁴*. Entire abdomen and flanks pure white; thighs white with obscure grey bases, which are scarcely seen; hinder eyelid grey *hypoleucus*, p. 36.
- d⁴*. Only the lower part of the abdomen and under tail-coverts pure white, the breast entirely grey like the throat; thighs dark slaty grey, contrasting with the under surface; hinder rim of eyelid white *mentalis*, p. 37.
- e⁴*. Breast entirely light grey, leaving only the chin, lower abdomen, and under tail-coverts white; thighs light grey; hinder rim of eyelid greyish { *papuensis*, p. 39.
scilateri, p. 40.

- b.* Lower breast and abdomen barred with black and white.
- c.* Light grey*; paler on abdomen and under tail-coverts, the white bars broader than or equal to the black ones; male with black feathers in front of eye, female with grey *lineatus*, p. 40.
- d.* Bluish grey; darker below, the black bars broader than the white ones in the female; in the male the abdomen black, with narrow hair-like cross lines of white *maforensis* ♀, [p. 41.]

1. *Graucalus boyeri*.

Choucari de Boyer, *Hombr. et Jacq. Voy. Pôle Sud, Atlas Ois.* pl. 9, fig. 3.

Campophaga boyeri, *Gray, Gen. B.* i. p. 283; *Bp. Consp.* i. p. 355; *Gray, P. Z. S.* 1858, p. 193; *id. Cat. B. New Guinea*, p. 31; *id. P. Z. S.* 1861, p. 435; *Rosenb. J. f. O.* 1864, p. 121; *Finsch, New-Guinea*, p. 171; *Hartl. J. f. O.* 1864, p. 154; *Gray, Hand-l. B.* i. p. 337, no. 5092; *Sclater, P. Z. S.* 1873, p. 697; *Meyer, Sitz. k. Akad. Wien*, lxi. p. 388.

Ptiladela boyeri, *Jacq. et Pucher. Voy. Pôle Sud, Zool.* iii. p. 68; *Bp. C. R.* xxxviii. p. 540; *Hartl. J. f. O.* 1854, p. 163; *Sclater, Pr. Linn. Soc.* ii. p. 160.

Campophaga albiflora, *Schl. N. T. D.* iv. p. 45; *Meyer, Sitz. k. Akad. Wien*, lxi. p. 368.

Graucalus strenuus, *Gould, B. New Guinea*, part ii. (*nee Schlegel*); *Salvad. Ibis*, 1876, p. 277.

Graucalus boyeri, *Salvad. Ann. Mus. Civic. Genov.* x. p. 136.

Adult male (Andai, August 1872, *D'Albertis*). General colour above greyish blue, the least wing-coverts like the back, rest of the wing-coverts ashy edged with greyish blue; bastard plumes black; primary-coverts and primaries black, margined with greyish blue; tail-feathers ashy blackish, washed with grey near the base; crown of head and nape greyish cobalt, the sides of face and neck brighter blue and inclining to greyish cobalt; under surface of body greyish blue, the chin and upper throat blackish, as well as a spot at the base of the lower mandible; plumes at base of bill, lores, feathers in front of and below the eye, as well as the front half of the eyelid black; under wing-coverts and axillaries orange-chestnut, the edge of the wing greyish blue; quills ashy below, hoary along the inner webs; "bill, feet, and iris black" (*D'Albertis*). Total length 9.2 inches, culmen 0.75, wing 5.1, tail 3.9, tarsus 0.9. (*Mus. Civic. Genov.*)

Adult female (Ansus, Jobi, April 1873, *Dr. A. B. Meyer*). Differs from the male in having no black on the face or throat, and in having white lores. Total length 8.7 inches, culmen 0.75, wing 4.85, tail 3.7, tarsus 0.85. (*Mus. Dresden.*)

Young male (Ansus, April 1873, *Dr. A. B. Meyer*). Like the old female, but the base of the forehead and white loreal plumes slightly mixed with blackish plumes, showing the approach to the full male dress; secondaries with hoary white edgings, and the outer tail-feathers tipped with white. (*Mus. Dresden.*)

Hab. North-western New Guinea; island of Jobi.

2. *Graucalus subalaris*.

Psittacula boyeri, *Salvad. Ann. Mus. Civic. Genov.* ix. p. 26 (*nec Gray*)
Graucalus subalaris, *Sharpe, Mitth. k. zool. Mus. Dresden*, Heft iii.

Adult male (Fly River, October 1875, *D'Albertis*; type of species). Similar to *G. boyeri*, but having the black on the throat extending a little further down towards the jugulum, and distinguished by its more orange-buff or fawn-coloured under wing-coverts and axillaries. Total length 8·5 inches, culmen 0·7, wing 4·95, tail 3·8, tarsus 0·85. (*Mus. Civic. Genov.*)

Adult female (Hall Bay, *D'Albertis*). Differs from the female of *G. boyeri* in having grey lores instead of white, in addition to the fawn-coloured under wing-coverts; "bill, feet, and iris black" (*D'Albertis*). Total length 9·2 inches, culmen 0·75, wing 5·3, tail 3·95, tarsus 0·9. (*Mus. Civic. Genov.*)

Hab. South-eastern New Guinea.

3. *Graucalus cæsius*.

Echenilleur gris, *Lerail. Ois. d'Afr.* iv. p. 47, pls. 162, 163.

Campephaga cana (*nec Gm.*), *Vicill. N. Dict.* x. p. 49 (*ex Lerail.*);
id. Gal. Ois. i. pl. cxxx.; *Grill, Zool. Anteckn.* p. 33; *Sander, Crit. on Lerail.* p. 43.

Ceblepyris cæsia, *Licht. Verz. Doubl.* p. 51; *Rüpp. Orn. Misc.* iii. p. 24; *Cab. Mus. Hein. Th.* i. p. 62; *Bp. Consp.* i. p. 353; *Hartl. J. f. O.* 1865, p. 157; *Heugl. Orn. N.O.-Afr.* i. p. 420; *Shelley, Ibis*, 1875, p. 76.

Ceblepyris levaillantii, *Temm. Pl. Col.* iii. texte to art. *Ceblepyris*.

Campephaga cæsia, *Gray, Gen. B.* i. p. 283; *Hartl. J. f. O.* 1865, p. 157; *Gray, Hand-l. B.* i. p. 340; *Sharpe, Cat. Afr. B.* p. 53, no. 504.

Campephaga levaillantii, *Layard, B. S. Afr.* i. p. 513.

Adult male. General colour above and below dark bluish grey, somewhat lighter on the forehead and sides of the crown; wing-coverts like the back, the greater series dusky blackish on the inner web; primary-coverts and primaries blackish, narrowly edged with grey, these margins broader on the secondaries, the innermost of the latter strongly washed with grey; tail-feathers blackish, with a very slight wash of grey, the outermost distinctly paler towards the tip; round the eye a ring of whitish or grey; lores and feathers in front of the eye slaty black, the shade of this colour extending on to the cheeks; quills ashy below, whitish on the inner webs. Total length 10 inches, culmen 0·8, wing 5·05, tail 4·8, tarsus 0·95.

Adult female. Similar to the male, but decidedly lighter grey, and distinguished by the lores being grey instead of blackish. Total length 10 inches, wing 4·95, tail 4·8, tarsus 0·95.

Hab. South Africa.

- a. ♂ ad. st. South Africa.
 b. ♀ ad. st. South Africa.
 c. ♀ ad. st. Knysna, Dec. 24, 1865
 (*C. J. Andersson*).

E. Wilson, Esq.

R. B. Sharpe, Esq.

| | | |
|-----------------|---------------------------------------|---------------------------|
| d. ♀ ad. sk. | George (<i>H. Atmore</i>). | R. B. Sharpe, Esq. |
| e. ♀ ad. sk. | Eland's Post (<i>T. C. Atmore</i>). | R. B. Sharpe, Esq. |
| f. ♂ ad. sk. | Kingwilliamstown. | Lieut. Anstey [P.]. |
| g, h. ♀ ad. sk. | Peri bush, Kingwilliamstown. | Lieut. H. Trevelyan [P.]. |

4. *Graucalus azureus*.

Graucalus azureus, *Cass. Pr. Philad. Acad.* 1851, p. 348.

Ceblopyris azurea, *Bp. C. R.* xxxviii. p. 541; *Hartl. Orn. W.-Afr.* p. 100; *Cass. Pr. Philad. Acad.* 1859, p. 52.

Cyanograucalus azureus, *Hartl. J. f. O.* 1861, p. 170.

Campophaga azurea, *Hartl. J. f. O.* 1865, p. 158; *Gray, Hand-l. B.* i. p. 340, no. 5137; *Sharpe, Cat. Afr. B.* p. 52; *id. Ibis*, 1872, p. 71; *Ussher, Ibis*, 1874, p. 65; *Sharpe et Bourier, Bull. Soc. Zool. France*, 1877, p. 479.

Adult male. General colour above and below Prussian blue, brighter and inclining to a shade of cobalt on the head and neck; the throat deep blue, with a blackish shade extending from the chin downwards and overspreading the fore part of the cheeks; a narrow frontal line, lores, and feathers in front of the eye black; wing-coverts resembling the back, with dusky bases to the inner webs; quills and tail-feathers blackish, externally washed with dark Prussian blue; under wing-coverts like the breast; quills ashy below, with a lighter grey shade along the inner web. Total length 8.4 inches, culmen 0.7, wing 4.1, tail 3.5, tarsus 0.8.

The bird I take to be the female is more of a verditer-blue, the black being confined to the lores and region in front of the eye and absent on the throat. I have not seen a dissected specimen.

Hab. West Africa, from Sierra Leone to the Congo.

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|----------------|---|---------------------------|
| a. ♂ ad. sk. | Camma River, Gaboon. | M. Du Chaillu [C.]. |
| b. [♀] ad. sk. | Gaboon. | M. Du Chaillu [C.]. |
| c. [♀] ad. sk. | Fantee (<i>Gov. Ussher</i>). | R. B. Sharpe, Esq. |
| d. [♂] ad. sk. | Enimill, Wassaw, March 1872 (<i>H. F. Missett</i>). | R. B. Sharpe, Esq. |
| e. [♂] ad. sk. | Chissambo, Rio Massabe, Congo. | MM. Lucan and Petit [P.]. |

5. *Graucalus axillaris*.

Graucalus axillaris, *Salvad. Mus. Civic. Genov.* vii. p. 925 (type examined).

Adult male (Mansinam, May 25, 1875, *Bruijn*; type of species). General colour above slaty grey, with a cast of lighter and more bluish grey; lesser wing-coverts like the back, the median and greater series rather darker grey than the back; quills black, externally edged with dark slaty grey; the secondaries outwardly entirely dark grey like the greater wing-coverts; tail black, with a slight ashy shade on the centre feathers; a narrow frontal line, lores, and feathers in front of the eye black; ear-coverts darker grey than the head; under surface of body slaty grey, the under wing-coverts and axillaries barred across with white; quills ashy

black below, grey on the inner web, which is edged internally with white. Total length 8·7 inches, culmen 0·75, wing 5·4, tail 4·4, tarsus 0·85. (*Mus. Civic. Genov.*)

Adult female (Mansinam, May 26, 1875, *Bruijn*). Differs from the male in having the throat and fore neck alone slaty grey; the rest of the under surface barred with black and white, the black bars always the broadest, but especially so on the sides of the body and on the under tail-coverts. The general tone of the grey upper surface is darker, the quills being blackish and the secondaries narrowly edged with white like the primaries. Total length 9 inches, culmen 0·8, wing 5·65, tail 4·4, tarsus 0·85. (*Mus. Civic. Genov.*)

Young male (Mansinam, May 30, 1875). Like the old female, but with some of the uniform grey breast-feathers of the adult male plumage appearing below: upper tail-coverts tipped with white, of which there are scarcely any traces in the adult female. Wing 5·4 inches. Tail black, the middle feathers dark slaty grey with a black tip. (*Mus. Civic. Genov.*)

Hab. Arfak Mountains, N.W. New Guinea.

6. *Graucalus cinereus*.

Le Grand Gobe-mouche cendré de Madagascar, *Briss. Orn.* ii. p. 389, pl. xxxvii. fig. 1; *Daubent. Pl. Ent.* iv. pl. 541.

Muscicapa cinerea, *P. L. S. Müller, Syst. Nat.* Anhang, p. 171; *Cass. Pr. Philad. Acad.* 1864, p. 256.

Ash-coloured Flycatcher, *Lath. Gen. Syn.* ii. pt. 2, p. 332.

Muscicapa kinkii, *Bodd. Tabl. Pl. Ent.* p. 31.

Muscicapa cana, *Gm. Syst. Nat.* i. p. 940.

Ceblepyris cana, *Cuv. Règne Anim.* i. p. 348; *Temm. Man. d'Orn.* p. lxii; *Hartl. Orn. Madag.* p. 46; *Roch & Neet. Ibis*, 1862, p. 273;

E. Neet. Ibis, 1863, p. 348; *Schl. P. Z. S.* 1866, p. 423; *Grandid. Rev. et Mag. de Zool.* 1867, p. 388.

Ceblepyris grisea, *Lesson, Traité*, p. 369.

Campephaga cana, *Gray, Gen. B.* i. p. 283, pl. 69, fig. 2; *Hartl. J. f. O.* 1865, p. 159; *Schl. & Poll. Faun. Madag. Ois.* p. 81; *Sharpe,*

Cat. Afr. B. i. p. 53, no. 502; *Hartl. Vög. Madag.* p. 180.

Campephaga grisea, *Gray, Gen. B.* i. p. 283.

Campephaga cinerea, *Gray, Handl. B.* i. p. 340.

Ceblepyris major, *Sharpe, P. Z. S.* 1870, p. 389, 1871, p. 314 (type examined).

Campephaga major, *Sharpe, Cat. Afr. B.* p. 53.

Adult male. General colour above grey, the wing-coverts uniform with the back; primary-coverts and primaries black, with a narrow edging of grey, indistinct on the former; secondaries black, more broadly edged with grey, increasing in extent towards the innermost, which are entirely grey like the back; two centre tail-feathers grey, with a shade of black near the extreme tip, rest of the tail black, the three outer feathers tipped with grey, increasing in extent towards the outermost, where the grey forms a broad tip and extends a little way up the outer web; head and throat black, the crown grey, forming a kind of cap; rest of under surface light grey, separated from the black throat by a strong shade of white; thighs

rather darker grey than the rest of the under surface; under wing coverts and axillaries grey like the breast; quills ashy brown below, the inner webs greyish white along the edge; "bill and legs bluish black, iris brown" (*E. Newton*); "iris black" (*Pollen*). Total length 8.5 inches, culmen 0.7, wing 4.3, tail 3.8, tarsus 0.85.

Adult female. Smaller than the male, and having the head only a little darker than the back, the sides of the face and nape being rather darker still, but not black; throat also grey, succeeded by a patch of creamy white forming an indistinct collar. Total length 7.9 inches, culmen 0.7, wing 4.05, tail 3.7, tarsus 0.85.

Young. Mottled all over, the feathers being brown edged with yellowish white, before which is a subterminal shade of darker brown; quills also edged with yellowish white; under surface of body greyish white, mottled with brown centres to most of the feathers.

Obs. In deference to the opinions of a practised observer in Madagascar like M. Grandidier, I have here considered my *C. major* to be only the adult male of *C. cana*. I was misled by the fact of two of the smaller form having been marked as males by Pollen and Van Dam, whose specimens are still in the Museum.

Hab. Madagascar.

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|--------------------------|---------------------------------------|--|
| <i>a.</i> Juv. sk. | N.E. Madagascar. | M. Pollen [<i>C.</i>]. |
| <i>b, c.</i> [♂] ad. sk. | N.E. Madagascar (<i>Van Dam</i>). | R. B. Sharpe, Esq. |
| <i>d, e.</i> ♀ ad. sk. | Madagascar. | Purchased. |
| <i>f.</i> ♂ ad. sk. | Bay of Antouzil, N.E. Madagascar. | R. B. Sharpe, Esq. |
| <i>g, h.</i> [♂] ad. sk. | N. Madagascar (<i>A. Crossley</i>). | R. B. Sharpe, Esq. (Types of <i>C. major</i> .) |
| <i>i.</i> [♂] ad. sk. | N. Madagascar. | Mr. A. Crossley [<i>C.</i>]. |

7. *Graucalus pectoralis*.

Graucalus pectoralis, *Jardine & Selby, Ill. Orn.* ii. pl. 57; *Suains. B. W.-Afr.* i. p. 249.

Pycnonotus niveoventer, *Less. Rev. Zool.* 1840, p. 226.

Ceblepyris pectoralis, *Rüpp. Mus. Senckenb.* iii. p. 32; *Hartl. Orn. W.-Afr.* p. 99; *Sharpe, Ibis*, 1870, p. 432; *Heugl. Orn. N.O.-Afr.* i. p. 418; *Gurney, in Anderss. B. Dam. Ld.* p. 134; *Bocage, Orn. Angola*, p. 205.

Campephaga pectoralis, *Gray, Gen. B.* i. p. 283; *Hartl. J. f. O.* 1865, p. 158; *Gray, Hand-l. B.* i. p. 283; *Sharpe, Cat. B.* i. p. 53, no. 503.

Ceblepyris cinerascens, *Bp. Consp.* i. p. 353 (*ex Temm. MS. in Mus. Lugd.*).

Graucalus frenatus, *Heugl. J. f. O.* 1864, p. 255.

Campephaga frenata, *Hartl. J. f. O.* 1865, p. 158; *Gray, Hand-l. B.* i. p. 340, no. 5136.

Campephaga anderssoni, *Sharpe, P. Z. S.* 1870, p. 70, pl. iv.

Adult male. General colour above French grey, a little lighter on the sides of the crown; wings like the back, the quills blackish on their inner webs, the primaries blackish, edged with French grey; tail-feathers blackish, with a steel-green gloss on their margins, the two centre feathers rather duller grey than the back, the outermost

feather paler towards the tip, which is white; round the eye a ring of silvery-grey feathers; lores, sides of face, ear-coverts, cheeks, and entire throat dark slaty grey, contrasting with the back and extending a little way on to the neck; rest of under surface pure white, including the under wing-coverts and inner lining of the quills; "bill and feet black; iris brown" (*Anchieta*). Total length 9 inches, culmen 0·85, wing 5·65, tail 4·1, tarsus 0·85.

Adult female (type of *C. anderssoni*). Above delicate grey, a little lighter on the rump; wing-coverts uniform with the back; quills ashy brown, exteriorly margined with white, the outer web of the inner secondaries light grey, the innermost secondaries being entirely of this colour; tail black, narrowly tipped with white, the two middle feathers ashy grey, with obscure cross-markings in some lights, the outer section white on the outer web: base of the forehead and feathers in front of and round the eye white; the space between the base of the bill and the eye black; the entire under surface of the body pure white, the throat with a crescent-like band of clear grey, cutting off the chin from the breast, both of these being pure white; bill and feet black. Total length 9 inches, of bill from front 0·7, wing 5·4, tail 4·7, tarsus 0·85.

Hab. Africa; Senegambia; N.E. Africa generally; Ovampo Land, S.W. Africa.

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| <i>a.</i> ♀ ad. sk. | Africa. | J. Gould, Esq. |
| <i>b.</i> ♂ ad. st. | Abyssinia. | |
| <i>c, d.</i> ♂ ad. sk. | Senegambia. | Purchased. |
| <i>e.</i> ♀ ad. sk. | Ovampo Land, June 25, 1867 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. (Type of <i>C. anderssoni</i> .) |

8. *Graucalus melanops*.

Black-faced Crow, *Lath. Gen. Syn. Suppl.* ii. p. 116.

Corvus melanops, *Lath. Ind. Orp. Suppl.* ii. p. xxiv.

? Rollier à masque noir, *Lerail. Ois. Parad.* i. pl. 30.

Cebropyris melanops, *Temm. Man. d'Orn.* i. p. lxii; *Wagler. Syst. Ac. art. Corvus*, *App. sp.* 4; *Müll. & Schl. Natürl. Gesch. Land- u. Volkenk.* p. 190.

Coracina melanops, *Vicill. N. Diet.* viii. p. 7; *Cab. Mus. Hein. Th.* i. p. 62.

Graucalus melanops, *Vigors & Horsf. Tr. Linn. Soc.* xv. p. 216; *Gould, Syn. B. Austr.* part iv.; *id. B. Austr. folio*, ii. pl. 55; *Bp. Consp.* i. p. 352; *Reichenb. Vög. Neuholl.* pp. 108, 282; *Sclater, Pr. Linn. Soc.* ii. p. 159; *Roschb. J. f. O.* 1864, p. 121; *Hartl. J. f. O.* 1864, p. 437; *Gould, Handb. B. Austr.* i. p. 192; *Buller, B. New Zealand*, p. 148; *Masters, Tr. Linn. Soc. N. S. W.* i. p. 48; *Salvad. & D'Albert. Ann. Mus. Civic. Genov.* vii. p. 820; *Salvad. op. cit.* ix. p. 27; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 180.

Graucalus papuensis, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 216 (*nee Cur.*).

Graucalus melanotis, *Gould, P. Z. S.* 1837, p. 143; *id. Syn. B. Austr.* part iv.

Campephaga melanotis, *Gray, Gen. B.* i. p. 283.

Campephaga melanops, *Gray, Gen. B. i. p. 283; id. P. Z. S. 1858*, pp. 179, 193; *id. Cat. B. New Guinea*, p. 32; *id. P. Z. S. 1861*, p. 439; *Fensch, Neu-Guinea*, p. 171; *Gray, Hand-l. B. i. p. 336*, no. 5064.

Colluricincla concinna, *Hutton, Cat. B. New Zealand*, p. 15; *id. Ibis*, 1872, p. 201.

Adult male (Yule Island, May 26, 1875, *D'Albertis*). General colour above light French grey, the wing-coverts like the back, with edgings of still lighter grey; primary-coverts and primaries black, externally edged with grey, inclining to white towards the tips of the quills; secondaries black, the outer aspect of the feathers light grey on the innermost, with the outer web grey and the inner one black; two centre tail-feathers ashy grey, blacker towards the tip, which is white, all the other feathers black, washed with grey towards the base and tipped with white, which increases in extent towards the outermost feather, which is also edged with white along the outer web; entire forehead, feathers above the eye, ear-coverts, sides of face, sides of neck, entire throat, and fore neck black, with a greenish gloss, fading off paler towards the chest, which is iron-grey, becoming gradually lighter and more delicate grey on the sides of the body, so as to leave only the lower abdomen and under tail-coverts pure white; thighs grey; under wing-coverts and axillaries pure white, as also the inner lining of the quills, which are otherwise ashy grey below; "bill black; feet dull ashy; iris black" (*D'Albertis*). Total length 12.5 inches, culmen 1.05, wing 7.65, tail 5.75, tarsus 1.05. (*Mus. Civic. Genov.*)

Obs. Not having a good adult male from Australia in the Museum collection, I have described a fine specimen from Yule Island which appears to me to be identical. This species varies much in size, but it is impossible to believe in the existence of more than one species; and *G. parvirostris* is little more than a race of the present bird.

♂, Louisiade Islands, wing 8.1 inches; ♀, N.W. Australia, wing 7.1 inches. These two seem to be the extremes, and every intermediate link between them can be found.

Adult female. Like the adult male (*Gould*).

Young. Differs from the adult in wanting the black forehead and throat, only the lores, feathers round the eye, and ear-coverts being black; breast grey; throat whitish, with wavy bars of dusky blackish, the breast with remains of greyish bars.

Hab. The whole of Australia, but replaced in Tasmania by the next species; S.E. New Guinea, Aru Islands, Ké Islands, Amboina, Louisiade Archipelago.

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| <i>a. Imm. sk.</i> | Australia. | J. Gould, Esq. [C.]. |
| <i>b. Juv. sk.</i> | Australia. | Sir D. Cooper [P.]. |
| <i>c. ♂ ad. sk.</i> | N.W. Australia, Jan. 17, 1856. | J. R. Elsey, Esq. [P.]. |
| <i>d, c. ♂, f. ♀ imm. sk.</i> | N.W. Australia, May 1, 1856. | J. R. Elsey, Esq. [P.]. |
| <i>g. ♂ imm. sk.</i> | Quail Island, Sept. 1855. | J. R. Elsey, Esq. [P.]. |

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| <i>h.</i> ♂ ad. sk. | Chaumont Isle, Louisiade Archipelago (<i>J. Macgillivray</i>), | Capt. Stanley [P.]. |
| <i>i.</i> Imm. sk. | Port Moresby, S.E. New Guinea. | Dr. Turner [C.]. |
| <i>k.</i> ♂ imm. sk. | Ambuyna. | A. R. Wallace, Esq. [C.]. |
| <i>l, m.</i> ♀ imm. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. |

Subsp. *a.* *Graucalus parvirostris*.

- Graucalus parvirostris*, *Gould*, *P. Z. S.* 1837, p. 143; *id. Syn. B. Austr.* part iv.; *id. B. Austr. folio, Intr.* p. xxxv; *Bp. Conspect.* i. p. 353; *Reichenb. Vög. Neuhol.* p. 283; *Gould, Handb. B. Austr.* i. p. 194; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. part 2, p. 180.
Ceblepyris (*Graucalus*) *parvirostris*, *Rüpp. Mus. Senckenb.* ii. p. 36.
Campephaga parvirostris, *Gray, Gen. B.* i. p. 283; *id. Hand-l. B.* i. p. 336, no. 5065.

Adult male. General colour light French grey, the wing-coverts like the back; bastard plumes black; primary-coverts black, externally edged with light grey; quills black, edged and tipped with white; the secondaries internally black, light grey on the outer web, with an external edging of white; two centre tail-feathers ashy grey, rather darker than the back; remainder of tail-feathers black, more or less grey towards the base, and tipped with white, more broadly towards the outermost, which is also ashy along the outer web; fore part of crown and forehead, entire sides of face, and feathers above the eye, sides of neck, and entire throat greenish black; breast grey as well as the sides of the body; thighs grey; the lower abdomen, vent, and under tail-coverts white; under wing-coverts, axillaries, and inner lining of quills white, the latter ashy grey below; "bill and feet brownish black" (*Gould*). Total length 12.5 inches, culmen 0.85, wing 7.85, tail 5.95, tarsus 1.1.

Adult female. Like the male. Total length 12 inches, culmen 0.85, wing 7.3, tail 5.8, tarsus 1.

Younger birds have the forehead blackish, mixed with grey, not black as in the adult; lores, feathers round the eye, and ear-coverts black; throat and cheeks white, with arrow-shaped bars of black on the throat.

Hab. South Australia and Tasmania.

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| <i>a.</i> Ad. st. | Tasmania. | Ronald Gunn, Esq. [P.]. |
| <i>b, c.</i> ♂ ad. sk. | Tasmania. | Ronald Gunn, Esq. [P.]. |
| <i>a.</i> [♀] ad. sk. | Tasmania. | Ronald Gunn, Esq. [P.]. |
| <i>e, f.</i> ♂ ad. sk. | Tasmania. | Antarctic Expedition [C.]. |
| <i>g.</i> ♂ ad. sk. | Tasmania. | Sir T. Mitchell [P.]. |
| <i>h, i.</i> ♂, <i>k.</i> ♀ ad. sk. | South Australia. | Sir George Grey [P.]. |
| <i>l.</i> ♂ ad. st. | South Australia. | Sir George Grey [P.]. |
| <i>m.</i> Jun. st. | Australia. | |
| <i>n.</i> ♀ juv. sk. | "Three Isles near Cape Bedford, July 29, 1848" (<i>J. Macgillivray</i>), | Capt. Stanley [P.]. |

9. *Graucalus leucopygius*.

Graucalus leucopygius, *Bp. Consp.* i. p. 354; *Hartlaub, J. f. O.* 1864, p. 443; *Walden, Tr. Z. S.* viii. p. 68; *Salvad. Ann. Mus. Civic. Genov.* vii. p. 657; *Brüggem. Abhandl. Ver. Brem.* v. p. 71.

Campephaga leucopygius, *Finsch, Neu-Guinea*, p. 172; *Gray, Hand-l. B.* i. p. 337, no. 5074.

Adult male. General colour above dark ashy grey, the scapulars and lesser wing-coverts like the back; the greater series and the quills blackish, narrowly margined with ashy grey; lower rump and upper tail-coverts white; tail-feathers black, outer ones ashy at tip, the centre ones shaded with ashy towards the base; feathers at base of forehead, lores, feathers above and below the eye, upper ear-coverts, and chin black; remainder of the sides of face, throat, and breast dark ashy grey, fading paler towards the abdomen, which, with the lower flanks, vent, and under wing- and tail-coverts, is white; quills ashy below, white along the inner webs of the feathers; thighs ashy grey. Total length 11·5 inches, culmen 1·05, wing 6, tail 5, tarsus 0·95.

Adult female. Differs from the male in being lighter grey, and in having no black on the lores or sides of face. Total length 11·5 inches, culmen 0·9, wing 5·9, tail 4·9, tarsus 0·9.

Young female. Differs from the adult in having conspicuous white tips to the tail-feathers, the secondaries being broadly edged and tipped with white, the primaries more narrowly. The general colour of the upper surface is light grey, as also are the sides of the face, throat, and breast, the grey not extending so far down as in the adult, and all traces of black on the lores and round the eyes being absent; white upper tail-coverts tipped with brown; breast with dusky bars of grey; thighs white, varied with grey. Total length 11 inches, culmen 0·9, wing 5·6, tail 4·8, tarsus 0·9.

This specimen still has a few of the young feathers remaining, whence it seems that the white edgings to the secondaries and tail-feathers are signs of youth.

Hab. Celebes.

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| <i>a, b.</i> ♂ ♀ ad. sk. | Macassar, Celebes. | A. R. Wallace, Esq. { |
| <i>c.</i> ♀ imm. sk. | Macassar. | A. R. Wallace, Esq. { |
| <i>d.</i> [♀] ad. sk. | Menado. | A. R. Wallace, Esq. { |

10. *Graucalus javensis*.

Ceblepyris javensis, *Horsf. Tr. Linn. Soc.* xiii. p. 145; *Rüpp. Mus. Senckenb.* iii. p. 27.

Campephaga javensis, *Gray, Gen. B.* i. p. 283; *id. Hand-l. B.* i. p. 336, no. 5071.

Coraciina javensis, *Cab. Mus. Hein.* Th. i. p. 62.

Graucalus javensis, *Blyth, Cat. B. Mus. A. S. B. App.* i. p. xii; *Bp. Consp.* i. p. 354; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 174, no. 232; *Hartl. J. f. O.* 1864, p. 441.

Adult female. General colour light ashy grey, a little paler on the

rump and upper tail-coverts; least wing-coverts like the back; median and greater coverts ashy grey, externally edged with lighter grey, the inner greater coverts externally margined with white; primary-coverts black, externally margined with ashy, whitish at the tips; quills black, edged narrowly with white, greyer near the base; secondaries lighter grey, blackish on the inner web and broadly edged with white on the outer; two centre tail-feathers ashy grey, tipped with white, the rest of the feathers black, shaded with grey near the base and conspicuously tipped with white, more broadly on the outermost, which is white also along the outer web; lores, feathers round the eye, and sides of face slaty grey, darker than the back; throat and breast duller ashy grey than the upper surface, gradually fading paler towards the abdomen, which is white as well as the under tail-coverts; sides of body, flanks, and thighs grey; under wing-coverts white as well as the axillaries and inner lining of the quills, the latter otherwise ashy grey below. Total length 11 inches, culmen 1·05, wing 6·05, tail 4·75, tarsus 1·05.

Hab. Java.

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| a. Ad. sk. | Java (<i>Horsfield</i>). | Hon. East-India Co. [P.]. |
| b. ♀ ad. sk. | W. Java. | A. R. Wallace, Esq. [C.]. |

11. *Graucalus macii*.

Graucalus macii, *Lesson, Traité*, p. 349; *Blyth, Cat. B. Mus. A. S. B.* p. 190; *Bp. Consp.* i. p. 354; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 173; *Jerd. B. Ind.* i. p. 117; *Godwin-Aust. J. A. S. B.* xxxix. p. 99; *Bull, Str. F.* 1873, p. 65; *Hume, op. cit.* 1874, p. 204; *Adam, t. c.* p. 400; *Hume, Str. F.* 1875, p. 94; *id. Nests & Eggs Ind. B.* p. 181; *Blyth & Wadden, B. Burm.* p. 123; *Butler, Str. F.* 1876, p. 39; *Fairb. t. c.* p. 256; *Armstr. t. c.* p. 316; *Hume, op. cit.* 1877, p. 29; *Fairb. t. c.* p. 400; *Hume & Davison, Str. F.* 1878, p. 210.

Graucalus nipalensis, *Hodgs. Ind. Rev.* i. p. 527.

Cebelypyris papuensis, *Jerd. Madg. Journ.* x. p. 242 (*nec Gm.*).

Campephaga macei, *Gray, Gen. B.* i. p. 283; *id. Hand-l. B.* i. p. 336, no. 5069.

Graucalus layardi, *Blyth, Ibis*, 1866, p. 368; *Jerd. Ibis*, 1872, p. 117; *Wald. Ibis*, 1873, p. 311.

Campephaga pusilla, "*Blyth*," *Gray, Hand-l. B.* i. p. 337, no. 5086.

Adult male. General colour above French grey, the wing-coverts uniform with the back; the bastard wing black; primary-coverts black, externally edged with ashy grey; quills black, with a narrow margin of white; the secondaries black, with a narrow whitish tip, the outer webs grey like the back, the margins white; two centre tail-feathers dark French grey, tipped with white, the next ones black, broadly tipped with white, and with grey bases increasing in extent towards the middle of the tail; outer feathers black, broadly tipped with white and externally grey; a narrow frontal line, feathers in front of and below the eye, and feathers at gape black; ear-coverts and sides of face rather darker grey than the head; chin blackish at base; cheeks and under surface of body French grey, the

lower abdomen, vent, and under tail-coverts pure white; thighs grey; under wing-coverts and axillaries white, with a few transverse lines of grey near the edge of the wing; quills ashy below, white along the inner web. Total length 11·8 inches, culmen 1·05, wing 7·1, tail 6, tarsus 1·05.

Adult female (Kamptee, *Dr. Hinde*). Differs from the male in being lighter grey, and in having the feathers of the lower back, rump, and upper tail-coverts margined with whitish; the greater wing-coverts and quills with whitish edges; tail-feathers browner than in the male and with less distinct white tips; lores hoary grey; ear-coverts darker grey than the head; feathers in front of and below the eye black; cheeks and under surface of body white, barred transversely with blackish lines; the lower abdomen, vent, and under tail-coverts white; thigh white, barred with black. Total length 11·5 inches, culmen 1, wing 6·4, tail 5·2, tarsus 1.

Obs. Specimens from Southern India seem to be rather smaller and have the grey on the breast less extended; wing 5·95 to 6·1 inches. The birds from this part are *Graucalus lagardi*, Blyth (*cf.* *Walden, Ibis*, 1873, p. 310); but although birds from Darjiling do show some differences from Madras examples, those from North-western India are intermediate, and I am unable to define specific characters.

Hab. India and Ceylon, ranging into the Burmese countries.

| | | |
|--------------------------|--|-----------------------------------|
| <i>a.</i> ♀ ad. sk. | India. | |
| <i>b.</i> ♂ ad. sk. | India. | Purchased. |
| <i>c.</i> ♂ ad. sk. | Madras. | T. C. Jerdon [P.]. |
| <i>d.</i> ♂ ad. sk. | Madras. | Rev. H. H. Baber [P.]. |
| <i>e.</i> ♀ ad. st. | Madras. | Rev. H. H. Baber [P.]. |
| <i>f, g.</i> ♂ ♀ ad. sk. | Kamptee, C. India. | Dr. B. Hinde [P.]. |
| <i>h.</i> ad. sk. | Mysore. | Capt. C. H. T. Marshall [P.]. |
| <i>i.</i> ♀ ad. sk. | Sassowlie, Jan. 1869. | Colonel Sturt [P.]. |
| <i>k.</i> ♀ ad. sk. | Gondul, Kattiawar, Nov. 28, 1871. | Major J. Hayes Lloyd [P.]. |
| <i>l.</i> ♀ ad. sk. | Rajkote, Nov. 24, 1871. | Major J. Hayes Lloyd [P.]. |
| <i>m, n.</i> ♂ ♀ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>o.</i> ♀ ad. st. | Behar. | B. H. Hodgson, Esq. [P.]. |
| <i>p, q.</i> ♂ ad. sk. | Darjiling. | J. Fotheringham, Esq. [C.]. |
| <i>r, s.</i> ♂ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>t.</i> ♂ ad. sk. | Nazeerah, Upper Assam. | R. B. Sharpe, Esq. [P.]. |
| <i>u.</i> ♂ ad. sk. | Tsagine, Upper Burmah, Dec. 27, 1871. | Dr. J. Anderson [C.]. |
| <i>v.</i> ♂ ad. sk. | Bassein, Pegu. | W. T. Blanford, Esq. [P.]. |
| <i>w.</i> ♂ ad. sk. | Port Blair, South Andamans, May 26, 1873 (<i>Capt. Wimberley</i>). | R. B. Sharpe, Esq. [P.]. |

12. *Graucalus rex-pineti*.

Graucalus rex-pineti, *Swinhoe, Ibis*, 1863, p. 205, 1866, pp. 393, 402, 1870, p. 242; *id.* *P. Z. S.* 1871, p. 378; *Hartl. J. f. O.* 1864, p. 439; *David & Oustalet, Ois. Chine*, p. 102.
Campephaga rex-pineti, *Gray, Hand-l. B. i.* p. 336, no. 5068.

Adult. General colour light ashy grey, rather darker on the head and lighter on the rump and upper tail-coverts; wing-coverts ashy grey like the back, the inner secondaries also ashy grey, lighter grey along the edge of the outer web, the inner web blackish; quills black, narrowly edged with grey on the outer web; two centre tail-feathers darker ashy grey, tipped with white, the rest of the tail black, washed with grey near the base, the white tips increasing in size towards the outer feather, which is ashy whitish along the outer web; feathers at base of forehead, lores, feathers round the eye, and the sides of face and ear-coverts black; throat and breast deep ashy grey, the abdomen and under tail-coverts white; the thighs grey, with indistinct darker cross-markings, which are apparent also on the lower breast and sides of body; under wing-coverts and axillaries buff, as also the inner lining of the quills, which are otherwise ashy grey below; edge of wing with narrow wavy lines of black, remains of which are also apparent on the axillaries. Total length 11·5 inches, culmen 0·9, wing 6·45, tail 5·2, tarsus 1.

Hab. Island of Formosa.

a. Ad. sk.

Formosa.

R. Swinhoe, Esq. [C.].

13. *Graucalus hypoleucus*.

Graucalus hypoleucus, *Gould*, *P. Z. S.* 1848, p. 38; *id.* *B. Austr. folio*, ii. pl. 57; *Reichenb. Vög. Neuhol.* pp. 233, 283; *Macgill. Contr. Orn.* 1850, p. 101; *Bp. Consp.* i. p. 354; *Rosenb. J. f. O.* 1864, p. 121; *Hartl. t. c.* p. 444; *Ramsay, Ibis*, 1865, p. 84; *Gould, Handb. B. Austr.* i. p. 196; *Meyer, Sitz. b. Akad. Wien*, lxi. p. 506; *Salvad. & D'Albert. Ann. Mus. Civic. Genov.* vii. p. 820; *Masters, Pr. Linn. Soc. N. S. W.* i. p. 48; *Salvad. Ann. Mus. Civic. Genov.* xii. p. 326; *Forbes, P. Z. S.* 1878, p. 122; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. pt. 2, p. 180.

Campephaga hypoleuca, *Gray, P. Z. S.* 1858, p. 179; *id. Cat. B. N. Guinea*, p. 32; *id. P. Z. S.* 1861, p. 435; *Finsch, Neu-Guinea*, p. 171; *Gray, Hand-l. B.* i. p. 337, no. 5078.

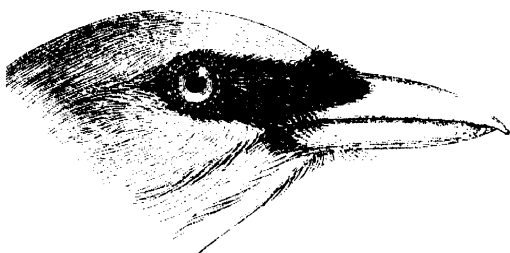
Graucalus angustifrons, *Sharpe, Journ. Linn. Soc. Zool.* xiii. pp. 3, 499; *Salvad. Ann. Mus. Civic. Genov.* ix. p. 27.

Adult. General colour above delicate French grey, the wing-coverts a little darker than the back; bastard plumes black; primary-coverts and primaries black, narrowly edged with grey, white on the latter; secondaries black, externally washed with grey and narrowly margined with white, the innermost secondaries grey on the outer web, black on the inner one; two centre tail-feathers dull grey, darker towards the tip, the rest black, grey towards the base and tipped with ashy, broader on the outer feathers, which have an inner margin of white at the end of the inner web; sides of face light grey like the crown; a narrow frontal band, lores, feathers in front of and below the eye black, which colour encircles the fore part of the eye, fringing the black forehead, and does not extend onto the ear-coverts; cheeks and throat white, the latter gradually shading off into the pale grey fore neck and breast; lower breast, abdomen, and under tail-coverts, as well as the entire flanks, pure

white; thighs grey; under wing-coverts and axillaries pure white; quills ashy below, white along the inner webs; bill blackish brown (*Gould*), black (*D'Albertis*); legs and feet black, the insides of the feet and spaces between the scales of the tarsi mealy grey (*Gould*); iris brownish black (*Gould*), black (*D'Albertis*). Total length 9.5 inches, culmen 0.95, wing 3.7, tail 4.2, tarsus 0.9.

Adult female. Like the male, but the black on the face duller and the secondary quills and greater wing-coverts broadly edged with white on the outer web; the tail-feathers also conspicuously tipped with white. Total length 10.5 inches, culmen 0.95, wing 5.75, tail 4.5, tarsus 0.95.

Obs. This species comes very close to the female of *G. mentalis*, from which it is distinguished by its smaller dimensions. In the last-named bird the black beneath the eye is extended also onto the upper edge of the ear-coverts.



Head of *Graucalus hypoleucus*, to show region of the eye.

Hab. Northern Australia and Queensland, South-eastern New Guinea, Aru Islands.

| | | |
|-------------------|---------------|---|
| a. [♀] ad. sk. | Port Albany. | Purchased. |
| b. [♀] ad. sk. | Port Bowen. | Godfrey Museum. |
| c. [♀] ad. sk. | Gould Island. | J. B. Jukes, Esq. [P.]. |
| d. ♂ ad. sk. | Port Moresby. | Rev. S. Macfarlane [C.]. (Type of <i>S. angustifrons</i> .) |
| e. ♂ ad. sk. | Port Moresby. | O. C. Stone, Esq. [C.]. |
| f. ♀ ad. sk. | Port Moresby. | Dr. Turner [C.]. |
| g, h. ♂ ♀ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. |

14. *Graucalus mentalis*.

Graucalus mentalis, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 217 (type examined); *Gould, Syn. B. Austr.* part iv.; *id. B. Austr.* folio, ii. pl. 56; *Bp. Consp.* i. p. 354; *Reichenb. Vög. Neuholl.* pp. 233, 283; *Hartlaub, J. f. O.* 1864, p. 439; *Gould, Handb. B. Austr.* i. p. 195; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. pt. 2, p. 180.

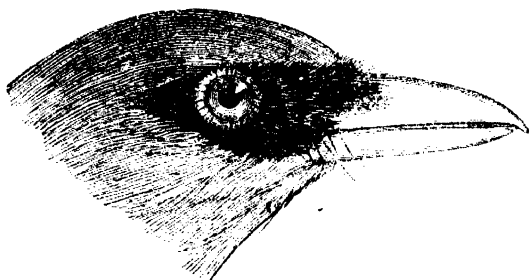
Ceblepyris (Graucalus) mentalis, *Rüpp. Mus. Senckenb.* iii. p. 36.

Campephaga mentalis, *Gray, Gen. B.* i. p. 283; *id. Hand-l. B.* i. p. 336, no. 5067.

Adult male. Above dark French grey, lighter on the lower back, rump, and upper tail-coverts; wing-coverts like the back; bastard wing-feathers black; primary-coverts black, externally washed with dark grey; quills black, the primaries margined with hoary white, the secondaries externally grey like the back and edged with white.

broadly towards the ends of the feathers, the innermost secondaries grey on the outer web, black on the inner one; two centre tail-feathers ashy grey, blackish towards the tips, which are white, the rest of the tail-feathers black, broadly tipped with white and washed with grey towards the base; outer feather browner than the others and more broadly tipped with white; a frontal band, lores, and feathers surrounding the eye black; the sides of the face and ear-coverts grey like the crown, the black of the face extending about halfway above the eye and extending below on the upper edge of the ear-coverts; fore part of eyelid black, the hinder edge of it white; cheeks and throat white, with a spot of black at the base of the lower mandible; lower throat, fore neck, and breast light French grey, the lower abdomen and under tail-coverts pure white; thighs slaty grey; under wing-coverts and axillaries pure white, as well as the inner lining of the quills, which are otherwise ashy below; "bill black; feet dark brown; iris dark brown" (*Gould*). Total length 10·2 inches, culmen 0·85, wing 6·45, tail 5·2, tarsus 0·95.

Young. In extreme youth, or during the first few months after it has left the nest, the throat, chest, and back of the neck are jet-black, while the breast and abdomen are rayed with obscure arrow-shaped markings of the same colour on a greyish-white ground; from this state individuals in every variety of change, to the uniform grey throat and head with black lores and mark under the eye, are to be met with (*Gould*).



Head of *Graucalus mentalis*, to show region of the eye.

Hab. Australia: Rockingham Bay, Port Denison, Wide Bay district, Richmond and Clarence river districts, New South Wales, Victoria (*Ramsay*).

| | | |
|------------------------------------|--------------------------------|--|
| <i>a.</i> Juv. sk. | South Australia. | Linnean Society [P.]. (Type of species.) |
| <i>b, c.</i> Ad. sk. | South Australia. | Sir George Grey [P.]. |
| <i>d.</i> ♂ ad. sk. | Murray River, South Australia. | Sir George Grey [P.]. |
| <i>e.</i> Ad. sk. | Australia. | Sir T. Mitchell [P.]. |
| <i>f.</i> Ad. sk. | Lake Elphinstone. | Museum Godeffroy. |
| <i>g.</i> Imm. st. | Australia. | |
| <i>h, i.</i> Imm. st. | Australia. | J. Gould, Esq. [C.]. |
| <i>k.</i> Pull.; <i>l.</i> Ad. st. | Adelaide. | Purchased. |

15. *Graucalus papuensis*.

- Le Choucari de la Nouvelle Guinée, *Daubent. Pl. Enl.* iii. pl. 630;
Moult. H. N. Ois. iii. p. 81.
 Papuan Crow, *Lath. Gen. Syn.* i. p. 382.
Corvus papuensis, *Gm. Syst. Nat.* i. p. 3710.
Coracina papuensis, *Fieill. N. Dict.* viii. p. 6; *Cab. Mus. Hein.* Th. i.
 p. 62, note.
Graucalus papuensis, *Cuvier, Règne Anim.* 1817, vol. i. p. 34; *Less.*
Man. d'Orn. i. p. 144; *Bp. Consp.* i. p. 354; *Sclater, Pr. Linn. Soc.*
 ii. p. 159; *Rosenb. J. f. O.* 1864, p. 121; *Hartl. tom. cit.* p. 442;
Sundev. Av. Meth. Tent. p. 22; *Meyer, Sitz. k. Akad. Wien.* lxi.
 p. 505; *Salvad. Ann. Mus. Civic. Genov.* vii. p. 771, x. p. 136.
Cebblepyris albiventris, *Wagler, Syst. Av. art. Corvus*, App. sp. 9.
Cebblepyris papuensis, *Müller, Naturl. Geschied. Land- u. Volkenk.*
 p. 191; *Rüpp. Mus. Senckenb.* iii. p. 33.
Cebblepyris (Graucalus) affinis, *Rüpp. Mus. Senckenb.* iii. p. 38.
 Choucari de Desgraz, *Hombr. et Jacq. Voy. Pôle Sud, Atlas Ois.*
 pl. 7. fig. 1.
Campephaga papuensis, *Gray, Gen. B.* i. p. 283; *id. P. Z. S.* 1858,
 p. 193; *id. Cat. B. New Guinea*, p. 31; *id. P. Z. S.* 1861, p. 435;
Finsch, Neu-Guinea, p. 171; *Gray, Hand-l. B.* i. p. 337, no. 5082.
Campephaga desgrazii, *Gray, Gen. B.* i. p. 283; *id. P. Z. S.* 1858,
 p. 193; *id. Cat. B. New Guinea*, p. 31; *id. P. Z. S.* 1861, p. 435;
Finsch, Neu-Guinea, p. 171; *Gray, Hand-l. B.* i. p. 337, no. 5083.
Graucalus desgrazii, *Bp. Consp.* i. p. 355; *Jacq. et Pucher. Voy.*
Pôle Sud, Zool. iii. p. 64; *Sclater, Pr. Linn. Soc.* ii. p. 159; *Rosenb.*
J. f. O. 1864, p. 121.
Campephaga melanolora, *Gray, P. Z. S.* 1860, p. 353, 1861, p. 435;
Finsch, Neu-Guinea, p. 171; *Gray, Hand-l. B.* i. p. 336, no. 5075.
Graucalus melanolorus, *Hartl. J. f. O.* 1864, p. 443; *Meyer, Sitz. k.*
Akad. Wien, lxi. p. 505.

Adult male. General colour above French grey, the wing-coverts like the back, the greater series with an edging of lighter grey; bastard wing black, narrowly margined with white; primary-coverts black, externally ashy grey; quills black, narrowly margined with ashy grey, the secondaries more broadly grey on the outer web, the inner ones edged also with white, the innermost black on the inner web, grey on the outer; rump and upper tail-coverts lighter grey than the rest of the upper surface; two centre tail-feathers grey, blackish towards the tips, which are narrowly edged with white; remainder of tail-feathers black, washed with grey at the base and tipped with ashy, narrowly edged with whitish; a narrow frontal band, lores, feathers below the eye and at base of lower mandible black, this colour, however, not encircling the eye, the hinder part of the eyelid being grey like the sides of the face; cheeks grey like the ear-coverts; under surface of body light French grey, the chin white, the abdomen and under tail-coverts white; sides of body and thighs light grey; under wing-coverts and axillaries white; quills ashy grey below, white along the inner webs; "bill, feet, and iris black" (*D'Albertis*). Total length 10 inches, culmen 0.95, wing 5.7, tail 4.2 tarsus 0.95.

Adult female. Not to be distinguished from the male except by

the duller black of the lores and frontal band. Total length 10·5 inches, culmen 1, wing 5·2, tail 4·3, tarsus 1.

Obs. I have united *G. melanolorus* of Gray from Batchian and the neighbouring Molucca islands, as it differs only in its slightly larger size.

Young female (Andai, N.W. New Guinea, July 1873, *Dr. A. B. Meyer*). Differs from the adults in being lighter and purer French grey on the upper surface, as also in the centre tail-feathers, which are white at the tips and have no subterminal blackish shade; secondaries white on the outer web, the innermost almost entirely so, the primaries edged and tipped with white; throat white, as also the breast and abdomen, leaving only the jugular region and chest grey. This example still retains a few of the mottled plumes of the young dress. (*Mus. Dresden.*)

Hab. New Guinea and adjacent islands, Batchian, Gilolo, Ternate, Tidore, Morty Island.

| | | |
|---------------------------------------|------------------|-----------------------------------|
| <i>a, b.</i> ♂ ad. sk. | Arfak Mountains. | M. Laglaize [C.]. |
| <i>c, d.</i> Ad. sk. | Salwatti. | A. R. Wallace, Esq. [C.] |
| <i>e.</i> ♀ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.] |
| <i>f, g.</i> ♂, <i>h, i.</i> ♀ ad. sk | Batchian. | A. R. Wallace, Esq. [C.] |
| | | (Types of <i>C. melanolorus</i>) |
| <i>k.</i> Ad. sk. | Gilolo. | A. R. Wallace, Esq. [C.] |
| <i>l.</i> ♀ ad. sk. | Ternate. | A. R. Wallace, Esq. [C.] |
| <i>m.</i> Ad. sk. | Morty Island. | A. R. Wallace, Esq. [C.] |

16. *Graucalus sclateri*.

Graucalus melanolorus, *Sclater*, *P. Z. S.* 1873, p. 3.

Graucalus papuensis, *Sclater*, *P. Z. S.* 1877, p. 101.

Graucalus sclateri, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 325 (*ex Finsch MS. in Mus. Brem.*).

Adult (New Ireland; type of species). Similar to *G. papuensis*, but larger and more dingy ash-grey; under surface of body much whiter and tinged with dull ashy grey on the breast instead of light bluish grey. Total length 11·5 inches, culmen 1·1, wing 6·5, tail 5·3, tarsus 1·1. (*Mus. Brem.*)

Hab. New Ireland.

17. *Graucalus lineatus*.

Ceblepyris lineata, *Swains. Zool. Journ.* i. p. 466; *Rüpp. Mus. Senckenb.* iii. p. 30.

Graucalus swainsoni, *Gould, Syn. B. Austr.* part iv.; *id. B. Austr. folio*, ii. pl. 58; *Reichenb. Vög. Neuholl.* pp. 107, 283; *Bp. Consp.* i. p. 354; *Hartl. J. f. O.* 1864, p. 445; *Gould, Handb. B. Austr.* i. p. 197; *Ramsay, This*, 1865, p. 84.

Campephaga lineata, *Gray, Gen. B.* i. p. 283.

Campephaga swainsoni, *Finsch, Neu-Guinea*, p. 171; *Gray, Hand-l. B.* i. p. 337, no. 5079.

Graucalus lineatus, *Ramsay, Pr. Linn. Soc. N. S. W.* ii. pt. 2, p. 180, no. 109.

Adult. General colour above dark French grey, the wing-coverts uniform with the back, the greater series with a narrow white edging; bastard plumes black, edged with white; primary-coverts and quills black, externally grey with a narrow white margin, the innermost secondaries black on the inner web, grey on the outer one; two centre tail-feathers dark ashy grey, black at the tip; remainder of the tail-feathers black, more or less grey at the base, and with a narrow white edging at the tip and on the inner web of the outer feathers; a narrow line at base of feathers, lores, and feathers in front of the eye black; round the eye a ring of dusky grey feathers; sides of face, throat, and chest grey like the upper surface; remainder of under surface of body regularly barred with black and white, the bars about equal in breadth; thighs dark grey; under wing-coverts and axillaries barred with black and white like the breast; greater under wing-coverts and quills below dark ashy, the former faintly barred with grey and white, the latter darker at the tip and whitish along the inner web; "bill and feet black; iris straw-colour" (*Gould*). Total length 9.5 inches, culmen 0.75, wing 5.55, tail 4.05, tarsus 0.9.

Hab. New South Wales and Eastern Australia as far as Rockingham Bay.

α, b. Ad. sk.

Moreton Bay.

Purchased.

18. *Graucalus maforensis*.

Campephaga maforensis, *Meyer, Sitz. b. Akad. Wien*, xlix. p. 386 (type examined).

Graucalus maforensis, *Salvad. Ann. Mus. Civic. Genov.* viii. p. 927.

Adult male (Mafoor, March 1873; type of species). Above light bluish grey, the wing-coverts like the back; bastard plumes black, narrowly edged with white; primary-coverts black on the inner webs, externally grey, rather lighter on the extreme margin; quills black, the primaries with a narrow edging of hoary grey, the secondaries like the back, blackish on the inner web; tail-feathers entirely black (only three feathers remaining); sides of face a little darker bluish grey than the head; a narrow frontal line, lores, feathers in front of the eyes and at base of cheeks black; throat and chest bluish grey; breast and remainder of under surface of body black, crossed with very fine narrow lines of greyish white; thighs bluish grey; under wing-coverts and axillaries black, barred with white like the breast, but the bars much broader; quills ashy grey below, narrowly edged with white along the inner web; "iris yellow" (*Meyer*). Total length 8.8 inches, culmen 0.75, wing 4.7, tail 3.8, tarsus 0.8. (*Mus. Dresden*.)

Adult female. Differs from the male in having much broader white cross bars on the under surface, the black ones, however, being broader than the white ones: above, the colour is darker bluish grey than in the male, the black at the base of the forehead being

more dusky and not so velvety black; the secondaries as well as the primaries have a narrow and nearly obsolete hoary-grey edging, and are much more broadly margined with white on the inner web below: tail black, the outer feathers with a narrow white tip, the two centre feathers dark grey for the greater part of their extent, black at the tips. Total length 8·8 inches, culmen 0·75, wing 4·85, tail 4, tarsus 0·8. (*Mus. Dresden.*)

Hab. Island of Mafoor in the Bay of Geelvink.

5. EDOLIISOMA.

Type.

Edolisoma, *Jacq. et Pucher. Voy. Pôle Sud. Zool. iii. Ois. p. 69*
(1853)..... E. melan.

Range. Malayan archipelago, Philippine Islands, Timor, Molucca Islands from Celebes to New Guinea and North-eastern Australia.

Key to the Species.

a. Uniform below, not barred.

a'. Black above and below.

a''. Rump dark slaty grey *cerulescens* ♂, p. 44.

b'. Rump like the rest of the upper surface.

a'''. Reflexions of black plumage purple .. *nigrum* ♂, p. 45.

b'''. Reflexions of black plumage bottle-green *dispar* ♂, p. 46.

b'. Black below, grey above, with black wings and tail *montanum* ♂, p. 46.

c. Grey below; under tail-coverts like abdomen.

c''. Centre tail-feathers black; no ashy tips to any of the outer tail-feathers *montanum* ♀, p. 46.

d''. Centre tail-feathers entirely grey with no black tip *incertum* ♀, p. 52.

e''. Centre tail-feathers grey with a spot of black near the tip; outer tail-feathers tipped with ashy grey.

e'''. Greater wing-coverts conspicuously edged with white bordering the grey.

a⁴. With a blackish shade on the ear-coverts and cheeks; throat shadowed with darker grey, so that it looks a little darker than the rest of the under surface.

a⁵. General colour light slaty grey, the centre tail-feathers nearly entirely light slaty grey like the back, with a small black spot at the tip *ceramense*, p. 47.

b⁵. General colour dark bluish slate-colour, the centre tail-feathers like the back, gradually shading off into black at the tip. *salvadorii* ♂, p. 48.

- b*. With no black on the ear-coverts or sides of face, these being light ashy; throat also ashy grey, not darker than the rest of the under surface.
- c*. Much larger and of a darker grey; feathers in front of eye black; wing 4.95 inches: sexes different *timoriensis* ♂, p. 49.
- d*. Smaller; wing 4.25 inches: sexes alike; paler grey than the preceding species, with only a dusky spot in front of the eye *margination*, p. 50.
- d'*. No white on the greater wing-coverts, which are edged with light grey only.
- e*. Secondaries edged with the same grey as the back, not with whitish or hoary grey.
- e*. Smaller: slaty grey all over, without any leaden-blue appearance; no black on the chin; wing-coverts entirely grey on the outer webs *schisticeps* ♂, p. 50.
- f*. Smaller: light leaden blue; throat dark slaty blue like the rest of the under surface, the chin shaded with black; wing-coverts only broadly edged with grey { *arvensis* ♂, p. 52.
incertum ♂, p. 52.
obscure ♂, p. 51.
- g*. Larger: dark slaty blue above and below, the throat shaded with black as far even as the jugular region; wing-coverts only broadly edged with grey { *meyeri* ♂, p. 53.
remotum ♂, p. 54.
- d*. Secondaries edged with hoary grey or whitish.
- h*. Black on the throat extending on to the fore neck and breast, the rest of the under surface very dark grey *morio* ♂, p. 54.
- e*. No black on the throat, excepting a slight shade on the base of the chin { *temirostre* ♂, p. 55.
grayi ♂, p. 57.
- d*. Grey below; under tail-coverts rufous *anale*, p. 58.
- e*. Rufous below; under tail-coverts like the abdomen.
- f*. With slaty-grey or bluish head.
- e'''*. Smaller; wing 4.4 inches: under surface of body entirely deep chestnut like the rump and upper tail-coverts; back chestnut-brown *schisticeps* ♀, p. 50.
- f'''*. Larger; wing 4.7 inches: under surface of body fawn-colour; back brown with an ashy shade, the rump and upper tail-coverts a little lighter *meyeri* ♀, p. 53.

brown" (*A. Everett*). Total length 10·5 inches, culmen 0·9, wing 5·05, tail 4, tarsus 0·95.

Hab. Island of Luzon, Philippine archipelago.

a. Ad. st. Manilla, Luzon. Hugh Cuming, Esq. [C].
(Type of *C. atricoma*.)

2. *Edoliisoma nigrum*.

Lanius niger, *Garn. Voy. Coquille*, i. p. 589; *Less. Traité*, p. 375;

Gray, Gen. B. iii. App. p. 14; *Giebel, Orn. Thes.* ii. p. 442.

Lanius melas, *Less. et Garn. in Less. Man. d'Orn.* i. p. 128.

Cebblepyris melas, *S. Müll. Verh. Naturh. Geschied. Land- en Volkenk.* p. 189.

Cebblepyris cinnamomea, *S. Müll. t. c.* p. 189.

Echenilleur de Marescot, Hombr. et Jacq. Voy. Pôle Sud, Ois. pl. 10. fig. 2.

Campephaga marescotii, *Gray, Gen. B.* i. p. 283 (*ex. H. & J.*).

Campephaga melas, *Gray, Gen. B.* i. p. 283; *Bp. Consp.* i. p. 353;

Gray, P. Z. S. 1858, p. 193; *id. B. New Guinea*, p. 32; *Wall. P.*

Z. S. 1862, p. 165; *Rosenb. J. f. O.* 1864, p. 121; *Finsch, Neu-*

Guinea, p. 171; *Gray, Hand-l. B.* i. p. 338, no. 5094; *Meyer, Sitz.*

k. Akad. Wien, lxi. p. 389.

Campephaga cinnamomea, *Gray, Gen. B.* i. p. 283; *Bp. Consp.* i. p. 383; *Rosenb. J. f. O.* 1864, p. 121.

Edoliisoma marescoti, *Jacq. et Pucher. Voy. Pôle Sud, Zool.* iii. p. 69; *Bp. C. R.* xxxviii. p. 540.

Edoliisoma melan, *Sclater, Journ. Linn. Soc. Zool.* 1858, p. 160.

Campephaga melana, *Gray, P. Z. S.* 1861, p. 435; *Hartl. J. f. O.* 1865, p. 156.

Edoliisoma melas, *Salvad. Ann. Mus. Civic.* vii. p. 772; *id. & D'Albert. t. c.* p. 821; *Salvad. op. cit.* ix. p. 27, xii. p. 137; *Sharpe, Journ. Linn. Soc. Zool.* xiii. p. 317.

Adult male. General colour above glossy purplish black, the upper tail-coverts and wing-coverts edged with purple; quills black, with a greenish gloss on the inner secondaries, the primaries externally margined with purple; tail-feathers glossy black, with a slight steel-greenish lustre, the feathers obscurely margined with purplish; sides of head and entire under surface of body glossy purplish black, as also the under wing-coverts; quills brownish black below. Total length 8·2 inches, culmen 0·85, wing 4·9, tail 3·8, tarsus 0·9.

Adult female. Different from the male: of a foxy red colour, including the tail-feathers, which are somewhat browner on the inner webs; crown of head browner than the back; wing-coverts olive-brown edged with foxy rufous, the secondaries also of this colour; bastard plumes and primary-coverts brown, edged with olive; primaries brown, margined with dull rufous-brown; lores and an eyebrow deep foxy rufous; feathers in front of the eye blackish; sides of face deep foxy rufous, the ear-coverts with buffy whitish shaft-lines; entire under surface of body foxy rufous, including the under wing-coverts; quills brown below, ashy fulvous along the inner webs. Total length 9·3 inches, culmen 0·85, wing 4·6, tail 3·7, tarsus 0·9.

Young male (Andai, August 1872, *D'Albertis*). At first resembles the old female, but gradually gains the adult male plumage by the double action of a direct moult and by a change of feather; "bill, feet, and iris black" (*D'Albertis*). Wing 4·45 inches. (*Mus. Civic. Genov.*)

A male bird from Port Moresby differs from others from North-eastern New Guinea in having bronzy-green edgings to the wing-coverts; but as I can see a trace of an occasional green shade on the margins to the wing-coverts in some of the latter, I do not propose to separate as a species the southern bird. The appearance mentioned is not like the green shade in *E. dispar*, which is a good species.

Hab. New Guinea; Aru Islands.

| | | |
|---|---------------------------------|---------------------------|
| <i>a, b.</i> ♂ ad., <i>c.</i> ♀ ad. sk. | N.W. New Guinea. | A. R. Wallace, Esq. [C.]. |
| <i>d.</i> ♂ ad. sk. | Arafak Mountains. | M. L. Laglaize [C.]. |
| <i>e.</i> ♂ ad., <i>f.</i> ♀ ad. sk. | Amberbaki, New Guinea. | M. L. Laglaize [C.]. |
| <i>g.</i> ♂ juv. sk. | Amberbaki, New Guinea. | M. L. Laglaize [C.]. |
| <i>h.</i> ♂ ad. sk. | Port Moresby. | O. C. Stone, Esq. [C.]. |
| <i>i.</i> ♂ juv. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. |
| <i>k.</i> ♂ ad. sk. | Ansus, Jobi Island, April 1873. | Dr. A. B. Meyer [C.]. |

3. *Edoliisoma dispar*.

Edoliisoma dispar, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 329.

Adult (type of species: Ké Bandam, July 28th, 1873, *Beccari*). General colour above and below glossy black, with bottle-green reflections, the feathers grey at the base. Total length 10 inches, culmen 0·9, wing 5·1, tail 4·5, tarsus 1·05. (*Mus. Civic. Genov.*)

Female (not quite adult: Gran Key, August 1873, *Beccari*). General colour above olive-brown, greyer on the head, the wing-coverts rather more rufous-brown: the quills dark brown edged with rufous, the secondaries with fulvous; tail-feathers dark brown, rufescent at the tip; lores hoary grey; in front of the eye a dusky spot, round the eye a ring of whitish plumes; ear-coverts dark brown with white shaft-streaks; cheeks and under surface of body rufous-buff, barred with dusky blackish cross lines, narrower on the under tail-coverts, which are more rufous; the under wing-coverts and axillaries rufous-buff, the latter with dull brownish cross lines; quills blackish brown below, rufescent along the inner webs. Total length 8·5 inches, culmen 0·9, wing 4·85, tail 3·8, tarsus 0·95. (*Mus. Civic. Genov.*)

Hab. Molucca Islands; Goram, Tijor, Pulo-Padjang, Monawolka, Matabello, Banda, Ké.

| | | |
|---------------------|------------------|---------------------------|
| <i>a.</i> ♂ ad. sk. | Island of Goram. | A. R. Wallace, Esq. [C.]. |
|---------------------|------------------|---------------------------|

4. *Edoliisoma montanum*.

Campephaga montana, *Meyer, Sitz. k. Akad. Wien*, lxi. p. 386.

Edoliisoma montanum, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 927.

Adult male. General colour above blue-grey, including the wing-coverts; greater coverts black, edged with grey; bastard wing,

primary-coverts, and quills black, with a steel-green gloss on the margin, the inner secondaries broadly edged with grey; tail-feathers black, glossed with steel-green on the margins; a narrow frontal line, lores, feathers round the eye, sides of face, sides of neck, and entire under surface of body glossy black, the thighs ashy grey; under wing-coverts black; greater series of under wing-coverts and quills below ashy grey. Total length 9.5 inches, culmen 0.8, wing 5.4, tail 4.3, tarsus 1.

Adult female (Profi, Arfak Mountains, July 10, 1875, *Beccari*). Differs from the male in being of a lighter blue-grey both above and below; only the lores, feathers at base of forehead and in front of the eye, front half of eyelid, a spot at base of lower mandible and chin black. Total length 9.5 inches, culmen 0.75, wing 5.05, tail 4.1, tarsus 1. (*Mus. Civic. Genov.*)

The typical specimens lent to me by Dr. A. B. Meyer measure as follows:—

| | Total length. in. | Culmen. in. | Wing. in. | Tail. in. | Tarsus. in. |
|---------------------------|-------------------------|----------------|--------------|--------------|----------------|
| a. ♂. Arfak Mountains . . | 9.2 | 0.75 | 5.3 | 4.3 | 1 |
| b. ♀. " " . . | 8.8 | 0.8 | 5.0 | 4.1 | 1 |

The female is not fully adult, and has the inner secondaries and the outer tail-feathers tipped with white; the under tail-coverts are rufous, barred with dark slaty grey, from which it may be inferred that the young bird is entirely marked in this manner on the under surface.

Hab. North-western New Guinea.

a. ♀ ad. sk. Tjjobonda, Arfak Mountains, M. L. Laglaize [C.].
Feb. 13, 1876.

5. *Edoliisoma ceramense*.

Graucalus ceramensis, *Bp. Cat.* p. i. 355; *Hartl. J. f. O.* 1864, p. 442. *Campephaga ceramensis*, *Gray, P. Z. S.* 1860, p. 354; *Fisch, Neu-Guinea*, p. 172; *Gray, Hand-l. B.* i. p. 336, no. 5073.

Campephaga amboinensis, *Handl. J. f. O.* 1865, p. 156; *Gray, Hand-l. B.* i. p. 338, no. 5102.

Volvocivora amboinensis, *Brüggem. Abhandl. Bremen*, v. p. 71.

Adult male (North Ceram, *Wallace*). General colour above light slaty grey; wing-coverts black, externally slaty grey, of a lighter shade than the back, the greater series bordered with white on the extreme edge of the feathers; bastard plumes and primary-coverts black, the latter with a very narrow edging of grey; quills black, externally margined with light grey, the secondaries with a marginal edging of whitish; two centre tail-feathers light slaty grey with a subterminal black mark, the rest of the tail-feathers black, tipped with ashy grey, more broadly towards the outermost; nasal bristles, feathers in front of the eye, cheeks, and ear-coverts black, the latter washed with slaty grey; under surface of body slaty grey, rather darker on the throat, and inclining to blackish on the chin; under

wing-coverts lighter grey than the breast; quills blackish below, broadly white along the inner webs. Total length 10 inches, culmen 0·9, wing 4·9, tail 4, tarsus 0·95.

Adult female (Amboyna, Wallace). Different from the male. Above ashy brown, with a greyish shade on the rump, upper tail-coverts, and crown; least wing-coverts like the back, rest of the coverts brown, externally edged with pale rufous or buff, some of them with ashy; quills dark brown, edged with rufous, broader on the secondaries; bastard wing and primary-coverts dark brown, narrowly edged with ashy; centre tail-feathers fulvous brown, the others dark brown, broadly tipped with creamy buff, more extended on the outermost; lores hoary grey; over the eye a streak of fawn-colour; eyelid creamy buff; in front of the eye a triangular blackish patch; ear-coverts dull greyish, streaked with whitish buff; under surface of body rich creamy buff, the throat narrowly streaked with blackish, the breast and flanks with arrow-head wavy cross lines of black; under tail-coverts uniform; under wing-coverts and axillaries rich creamy buff; quills bright ashy brown below, rufous along the inner webs. Total length 9·5 inches, culmen 0·9, wing 4·85, tail 4, tarsus 0·95.

Hab. Ceram, Amboyna, Mysol.

| | | |
|-------------------|-----------|--------------------------|
| a. ♂ ad. sk. | N. Ceram. | A. R. Wallace, Esq. [C.] |
| b. ♀ ad. sk. | Amboyna. | A. R. Wallace, Esq. [C.] |
| c, d. ♂ ♀ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.] |

6. *Edoliisoma salvadorii*.

Edoliisoma salvadorii, Sharpe, *Mitth. k. zool. Mus. Dresden*, Heft iii.

Adult male. General colour above dark bluish slate-colour, the lesser wing-coverts like the back; median series black, margined with grey; greater series black, shaded with grey and inclining to white on the extreme edge; bastard plumes and primary-coverts black, the former narrowly edged with white, the latter with grey; quills black, the primaries edged with grey, the secondaries shaded with green, broadly margined with white, before which is a slight subterminal shade of grey; tail-feathers black, the outer feathers broadly, but obscurely, tipped with ashy grey, the centre ones dark grey, shading off into black at the tips; a narrow frontal line, lores, feathers in front of and round the eye and at the base of the cheeks black; ear-coverts dark grey, shaded with blackish; under surface of body dark bluish slate-colour, the chin black, the thighs also shaded with blackish; under wing-coverts bluish grey, those near the edge of the wing with black bases; quills ashy blackish below, broadly edged with dull white on the inner webs. Total length 8·5 inches, culmen 0·8, wing 4·85, tail 3·8, tarsus 0·95.

Adult female. Different from the male. Bluish grey above, a little duller than the male, the upper tail-coverts margined with hoary whitish; least wing-coverts like the back, median and greater series dark brown, distinctly edged with white, before which is a

more or less distinct shade of grey; primary-coverts dark brown, with obsolete grey edgings; quills dark brown, with a narrow greyish margin to the primaries, the secondaries more broadly edged with white; tail-feathers dark brown, tipped with white, more broadly on the outer feathers, the centre feathers ashy grey, black at the ends, which are slightly tipped with white; feathers in front of the eye black, surmounted by loreal plumes tipped with white; ear-coverts black, distinctly and broadly streaked with white, broadening out towards the tips of the feathers; cheeks and under surface of body white, broadly barred across with ashy black, the chin and under tail-coverts uniform buffy white without bars; under wing-coverts pale ochraceous buff; quills dark ashy brown, pale ochraceous buff for the greater part of the inner webs. Total length 8.6 inches, culmen 0.8, wing 4.85, tail 3.8, tarsus 0.9. (*Mus. Dresden.*)

Hab. Sangi Islands, north of Celebes.

a. ♀ ad. sk. Sangi Islands (*A. B. Meyer*). Dresden Museum.

7. *Edoliisoma timoriensis*. (Plate I. fig. 1.)

Campophaga plumbea, *Wallace*, *P. Z. S.* 1863, p. 485 (*nee Müll.*).

Adult male. Above light blue-grey, paler on the rump and upper tail-coverts, the lesser wing-coverts like the back; median series blue-grey, blackish at base of inner web; greater series black, externally blue-grey, with a narrow edging of white; bastard plumes and primary-coverts black, with a very narrow margin of grey; quills black, the primaries margined narrowly with hoary grey, the secondaries broadly grey, on the outer web narrowly margined with white; two centre tail-feathers ashy grey, with a subterminal spot of black; remainder of tail-feathers black, tipped with ashy grey, gradually increasing in extent towards the outermost, which is grey along the outer web; feathers in front of the eye dusky grey; the sides of the head slightly darker grey; under surface of body bluish grey, a little duller on the throat; under wing-coverts and axillaries very pale hoary grey, the quills blackish below, white along the inner webs. Total length 10 inches, culmen 0.8, wing 4.95, tail 4.2, tarsus 0.9.

Adult female. Different from the male. General colour above ashy grey, bluer on the head, the rump and upper tail-coverts tinged with ochraceous; lesser wing-coverts like the back, median and greater series dark brown, broadly edged with ochraceous buff; bastard feathers and primary-coverts dark brown, narrowly edged with whitish brown; quills dark brown, margined with ochraceous buff, much more broadly on the secondaries; two centre tail-feathers pale ochraceous brown, the rest of the tail-feathers dark brown, tipped with ochraceous buff, broader on the outside tail-feathers; lores forming a narrow line of hoary white; round the eye a ring of whitish feathers; in front of the eye a spot of dusky black; ear-coverts and sides of face ashy grey, with whitish shaft-lines; cheeks and under surface of body dull white, crossed with wavy lines of dusky brown, the under tail-coverts ochraceous buff; under wing-

coverts and axillaries deep ochraceous buff, as also the lining of the quills below. Total length 10 inches, culmen 0·8, wing 5, tail 4·5, tarsus 0·9.

Hab. Timor group of islands.

| | | |
|---|-----------|--------------------------|
| <i>a, b.</i> ♂ ad., <i>c.</i> ♀ ad. sk. | E. Timor. | A. R. Wallace, Esq. [C.] |
| <i>d.</i> ♀ juv. sk. | E. Timor. | A. R. Wallace, Esq. [C.] |

8. *Edoliisoma marginatum*. (Plate I. fig. 2.)

Campephaga marginata, Wallace, *P. Z. S.* 1863, p. 31; *Hartl. J. f. O.* 1865, p. 153; *Finsch, Neu-Guinea*, p. 172; *Gray, Hand-l. B. i.* p. 338, no. 5098.

Edoliisoma marginata, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 378.

Adult male (type of species). General colour above ashy grey, a little duller on the head; least wing-coverts like the back; greater and median series ashy grey, blackish at the base and on the inner webs, the greater coverts edged with white; bastard wing and primary-coverts black; quills also black, the primaries with a narrow edging of hoary grey, the secondaries broadly margined with grey and narrowly edged with white, exactly like the greater coverts; two centre tail-feathers ashy grey, subterminally marked with black, the rest of the tail-feathers black, tipped with ashy, more broadly on the outermost, which is ashy also for a great part of the outer web; lores and sides of face a little more dusky than the head; in front of the eye a blackish spot; under surface of body lighter ashy than the upper surface; under wing-coverts and axillaries white, washed with light grey; quills dark ashy brown, white along the inner webs. Total length 9 inches, culmen 0·85, wing 4·25, tail 3·4, tarsus 0·95.

Adult female. Similar to the male, the eyelid white, the ear-coverts also mottled at base with white spots; under wing-coverts pure white. Total length 8·5 inches, culmen 0·8, wing 4·25, tail 3·4, tarsus 0·9.

Hab. Island of Bouru, Moluccas.

| | | |
|--------------------------|--------|--------------------------|
| <i>a, b.</i> ♂ ♀ ad. sk. | Bouru. | A. R. Wallace, Esq. [C.] |
| | | (Types of species.) |
| <i>c.</i> Ad. sk. | Bouru. | A. R. Wallace, Esq. [C.] |

9. *Edoliisoma schisticeps*.

Echenilleur à calotte grise, *Honbr. et Jacq. Voy. Pole Sud, Atlas*, pl. 10, fig. 1.

Campephaga schisticeps, *Gray, Gen. B. i.* p. 283 (or *H. & J.*); *Bp. Consp.* i. p. 355; *Sclater, Journ. Linn. Soc. Zool.* 1858, p. 160; *Gray, P. Z. S.* 1858, p. 193; *id. Cat. B. New Guinea*, p. 32; *id. P. Z. S.* 1861, pp. 429, 633; *Rosenh. J. f. O.* 1864, p. 121; *Hartl. J. f. O.* 1865, p. 154; *Finsch, Neu-Guinea*, p. 171; *Gray, Hand-l. B. i.* p. 338, no. 5095.

Celepyris schisticeps, *Jacq. et Pucher. Voy. Pole Sud, Zool.* iii. p. 70. *Rectes draschi*, *Pelz. Verh. z.-b. Gesellsch. Wien*, 1876, p. 218.

Edoliisoma schisticeps, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 329; *id. P. Z. S.* 1878, p. 96, note.

Adult male. General colour above slaty grey, the lesser and median wing-coverts like the back: greater wing-coverts lighter grey, with blackish bases to the inner webs: bastard plumes, primary-coverts, and primaries black, the secondaries broadly edged with grey, hoary on the margins of the feathers: two centre tail-feathers dark ashy grey, with a subterminal black mark before a narrow grey tip; remainder of tail black, tipped with ashy grey, more broadly on the outer feathers: sides of face rather darker grey than the head, the feathers in front of the eye and above and below the fore part of the latter black: entire under surface of body dark slaty grey, the chin and fore part of cheeks blackish; under wing-coverts and axillaries slaty grey, the greater series and the inner lining of the quills hoary grey, the latter being otherwise dark ashy grey below. Total length 8.5 inches, culmen 0.75, wing 4.4, tail 3.3, tarsus 0.85.

Adult female. Different from the male. General colour above rufous-brown, inclining to chestnut on the rump and upper tail-coverts; centre tail-feathers rufescent brown, blackish just before the tip; remainder of the tail-feathers black, tipped with rufous, more broadly towards the outermost, which is also rufous along the outer web; crown of head and nape slaty grey; feathers in front of eye blackish; ear-coverts and sides of face rufous, with dull fulvous shaft-streaks; cheeks and entire under surface of body bright chestnut, including the under wing-coverts and axillaries; quills dull ashy brown below, pale rufous along the inner web. Total length 8.2 inches, culmen 0.75, wing 4.45, tail 3.3, tarsus 0.85.

Hab. West coast of New Guinea; Mysol.

| | | |
|---|--------|--------------------------|
| <i>a, b.</i> ♂ ad., <i>c-d.</i> ♀ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.] |
| <i>c.</i> ♂ juv. sk. | Mysol. | A. R. Wallace, Esq. [C.] |

10. *Edoliisoma obiense*.

Campephaga melanotis, Wall. & Z. S. 1862, p. 342 (*see Gould, see Gray*).

Edoliisoma obiense, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 329.

Adult (Obi Major, May 1875; type of species). General colour above slaty blue, the least wing-coverts like the back: median and greater wing-coverts black, broadly edged with slaty blue; bastard plumes black; primary-coverts black, narrowly margined with slaty grey: quills black, the primaries narrowly, the secondaries broadly margined with slaty blue: two centre tail-feathers ashy grey, with a large subterminal black mark, the rest of the tail black, tipped with ashy, the outer feather more broadly: feathers at base of bill, lores, feathers in front of the eye, sides of face and chin black: remainder of under surface of body slaty blue, a little darker than the back: edge of wing dull slaty blue; axillaries, under wing coverts, and inner lining of quills ashy grey. Total length 9 inches, culmen 0.8, wing 4.6, tail 3.7, tarsus 0.9. (*Mus. Civic. Genov.*)

Hab. Obi group of islands, Moluccas; Sula Islands.

| | | |
|---------------------|---------------|--------------------------|
| <i>a.</i> ♂ ad. sk. | Sula Islands. | A. R. Wallace, Esq. [C.] |
|---------------------|---------------|--------------------------|

11. *Edoliisoma aruense*.

Edoliisoma aruense, Sharpe, *Mitth. k. zool. Mus. Dresd.* Heft iii.

Adult male (Lutor, Aru Islands, June 23, 1876, *Beccari*; type of species). Similar to the male of *E. incertum*, Meyer (ex Miosnoum), but distinguished by whitish edgings to the inner webs of the secondaries, and by being rather lighter bluer grey. Total length 8·8 inches, culmen 0·8, wing 4·55, tail 3·6, tarsus 0·95. (*Mus. Civic. Genov.*)

Adult female (Lutor, June 24, 1873, *Beccari*). Entirely unlike the female of *E. incertum*, and resembling that of *E. tenuirostre*, but dark brown on the back without any grey shade, the latter being confined to the crown, where it is not very distinct; wing-coverts and quills edged with chestnut; eyebrow and sides of neck chestnut, as also the light streaks on the ear-coverts; under surface of body chestnut or very deep fawn-colour, barred across with arrow-shaped lines of dusky blackish everywhere, except on the throat, vent, and under tail-coverts, which are uniform. Total length 8·7, wing 4·45, tail 3·5, tarsus 0·95. (*Mus. Civic. Genov.*)

Hab. Aru Islands.

12. *Edoliisoma incertum*.

Campephaga incerta, Meyer, *Sitz. k. Akad. Wien*, lxi. p. 387.

Edoliisoma incertum, *Salead. Ann. Mus. Civic. Genov.* vii. p. 928.

Adult male (Miosnoum, May 1, 1875, *Beccari*). Above slaty blue, including the wing-coverts, the median and greater series slaty blue with black bases; bastard wing and primary-coverts entirely black; quills black, the primaries narrowly, the secondaries more broadly edged with grey; two centre tail-feathers ashy grey, with a large spot of black near the tip; remainder of the tail-feathers black, tipped with ashy grey, more broadly on the outermost, which is grey also along the outer web; feathers at base of bill, lores, feathers in front of the eye and under the fore part of the latter black; base of lower mandible blackish, and the ear-coverts with a blackish shade; under surface of body slaty blue, the chin blackish; under wing-coverts and axillaries lighter ashy grey; quills dusky ash-colour below, greyish white along the inner web. Total length 8·4 inches, culmen 0·9, wing 4·45, tail 3·4, tarsus 0·95. (*Mus. Civic. Genov.*)

Adult female (Ansus, Jobi, April 1873, *Dr. A. B. Meyer*; type of species). Very like the male, but having the two centre tail-feathers entirely ashy grey without any subterminal black spot. Total length 8·7 inches, culmen 0·8, wing 4·5, tail 3·5, tarsus 0·95. (*Mus. Dresden.*)

The type specimen above described agrees also with a female from Ansus (*Bruijn*) in the Genoa Museum; like it, the centre tail-feathers are uniform, with no subterminal black spot. The Miosnoum bird, which I cannot believe to be distinct, is rather brighter blue-grey and has a good-sized black spot at the tip of the central tail-feathers. This may be the character of the male bird.

Hab. Islands of Miosnoum and Jobi, in the Bay of Geelvink, N.W. New Guinea. •

13. *Edoliisoma meyeri*.

Campephaga plumbea, *Meyer, Sitz.* lxi. p. 368.

Edoliisoma, sp., *Salvad. Ann. Mus. Civic. Genov.* vii. p. 928.

Edoliisoma meyeri, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 327.

Adult male (Kordo, Misori, May 22, 1875, *Beccari*). General colour above dark blue-grey, the least wing-coverts like the back; median series blue-grey, with black inner webs; greater coverts black, broadly edged with grey on the outer webs; bastard wing, primary-coverts, and primaries black, the latter narrowly margined with grey, the secondaries broadly edged with blue-grey; two centre tail-feathers ashy grey, black at the tips; remainder of tail-feathers black, the outer ones tipped with ashy grey; feathers at base of upper mandible, lores, feathers in front of and below the eye black; eyelid blue-grey; ear-coverts black; under surface of body dark grey, the throat blackish, washed with blue-grey, the blackish shade fading off gradually on the chest; under wing-coverts dark slaty grey, the quills dark ashy brown below, white along the inner webs. Total length 9.4 inches, culmen 0.85, wing 4.7, tail 3.9, tarsus 0.95. (*Mus. Civic. Genov.*)

Adult female (Kordo, Misori, May 18, 1875, *Beccari*). General colour above rufous-brown, shaded with ashy olive on the back, the rump and upper tail-coverts edged with rufous-buff; least wing-coverts like the back; median series of coverts fawn-colour, with concealed black on the inner web; greater coverts blackish on the inner webs, fawn-colour on the outer; bastard wing and primary-coverts black, the latter with a narrow obsolete margin of rufous; quills black, the primaries narrowly, the secondaries broadly edged with fawn-colour; tail-feathers olive-brown, blackish brown near the tips, the outer ones nearly entirely dark brown, tipped with light fawn-colour, increasing in extent on the outermost feathers; crown of head and nape dark slaty grey, of which a shade spreads on to the upper mantle; feathers at base of upper mandible and a narrow loreal streak buffy white; plumes round the eye and a narrow line above the eye light fawn-buff; in front of the eye a blackish-grey spot; hinder margin of eyelid and a streak above the upper margin of the ear-coverts dark slaty grey; sides of face and ear-coverts mottled with buffy whitish spots, the latter streaked with buffy white; cheeks and under surface of body light fawn-colour, including the under wing-coverts and axillaries as well as the inner lining of the quills. Total length 9.2 inches, culmen 0.85, wing 4.65, tail 4.0, tarsus 0.95. (*Mus. Civic. Genov.*)

Hab. Islands of Misori and Mafoor, in the Bay of Geelvink, North-western New Guinea.

a, b. ♂ ♀ ad. sk. Kordo, Misori Island, April 1873 Dresden Museum.
(*Dr. A. B. Meyer*).

c. ♀ ad. sk. Mafoor Island, March 1873 (*Dr. A. B. Meyer*). Dresden Museum.

14. *Edoliisoma remotum*.

Edoliisoma, sp. inc., ♀, *Sclater*, *P. Z. S.* 1877, p. 101.

Edoliisoma schisticeps, *Ramsay*, *Pr. Linn. Soc. N. S. W.* ii. p. 222
(*nee Gray*).

Edoliisoma remotum, *Sharpe*, *Mitth. k. zool. Mus. Dresden*, Heft iii.

Adult male. Like the male of *E. incertum*. Total length 9·5 inches, culmen 0·95, wing 4·95, tail 4·05, tarsus 0·95. (*Mus. Berol.*)

Adult female. Like the female of *E. incertum*, but with the head ashy brown, the rump and upper tail-coverts rufous-buff, the centre tail-feathers rufous-brown. (*Mus. Berol.*)

Hab. New Hanover; New Ireland; Duke of York Island.

15. *Edoliisoma morio*.

Chelepyris morio, *S. Müller*, *Ver. Naturh. Gesch. Land- u. Volkenk.* p. 189.

Campephaga morio, *Gray*, *Gen. B.* i. p. 283; *Bp. Consp.* i. p. 353; *Hartl. J. f. O.* 1865, p. 155; *Fisch.* *New-Guinea*, p. 172; *Gray*, *Hand-l. B.* i. p. 338, no. 5097.

Campephaga melanolemma, *Gray*, *Hand-l. B.* i. p. 338, no. 5099 (*descr. nulli*).

Volvocivora morio, *Walden*, *Tr. Z. S.* viii. p. 69, pl. viii. fig. 1; *Brüggem. Abhandl. Bremen*, v. p. 71.

Edoliisoma morio, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 657.

Adult male. General colour above dark bluish slate-colour, darker on the head, the least wing-coverts like the back; greater and median series ashy grey, hoary grey on the extreme margin, and black on the inner webs; bastard plumes black; primary-coverts black, narrowly edged with grey; quills black, the primaries narrowly, the secondaries broadly edged with bluish grey, hoary on the margins and resembling the greater coverts; two centre tail-feathers slaty grey, black before the tips; remainder of tail-feathers black, tipped with ashy grey, broader on the outer feathers; nasal plumes, feathers in front of and round the eye, sides of face, sides of neck, throat, and fore neck black, gradually shading off into bluish slate-colour on the rest of the under surface; under wing-coverts and axillaries dark bluish slate-colour; quills dusky ash-colour below, hoary white along the inner webs. Total length 10 inches, culmen 0·8, wing 4·45, tail 3·6, tarsus 0·9.

Adult female. Different from the male. Lighter grey above, the median and greater coverts grey with hoary margins, the inner webs blackish; bastard plumes and primary-coverts black; quills black, externally edged with bluish grey, the secondaries more broadly margined with grey, hoary on the edges, the inner secondaries almost entirely grey, blackish on the inner webs; two centre tail-feathers bluish grey, with a subterminal black spot; the rest of the tail-feathers black, tipped with ashy grey, the tips broader towards the outermost, which are tipped with pale ochraceous buff; loros hoary white; round the eye a ring of buffy white feathers; in front of the eye a blackish spot; sides of face grey, mottled below the eye with

white spots, the ear-coverts streaked with white; cheeks and under surface of body rich ochraceous buff, barred very distinctly with black wavy cross lines; thighs grey on their outer aspect; under tail-coverts deep ochraceous buff, as are also the under wing-coverts and axillaries; quills dull brown below, white along the inner webs. Total length 9 inches, culmen 0·85, wing 4·4, tail 3·45, tarsus 0·85.

Hab. Island of Celebes.

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|--------------------------|------------------------|-----------|---------------------------|
| <i>a.</i> ♂ ad.; | <i>b, c.</i> ♀ ad. sk. | Makassar. | A. R. Wallace, Esq. [C.]. |
| <i>d, e.</i> ♂ ♀ ad. sk. | | Makassar. | A. R. Wallace, Esq. [C.]. |
| <i>f.</i> ♂ ad. sk. | | Menado. | A. R. Wallace, Esq. [C.]. |

16. *Edoliisoma tenuirostre*.

Graucalus tenuirostris, *Jard. Edinb. Journ. N. Sci.* iv. p. 211; *id.* &

Selby, Ill. Orn. iii. pl. 114 (fig. mala); *Gould, Syn. B. Austr.* part iv.

Cebblepyris jardinii, *Rüpp. Mus. Senckenb.* iii. p. 50.

Cebblepyris plumbea, *S. Müll. Verh. Nat. Gesch. Land- u. Volkenk.* p. 189 (*acc. Wagler*).

Campophaga tenuirostris, *Gray, Gen. B.* i. p. 283.

Campophaga plumbea, *Gray, Gen. B.* i. p. 283; *Bp. Consp.* i. p. 353; *Gray, P. Z. S.* 1858, p. 193; *id. Cat. B. New Guinea*, p. 32; *Sclater, Pr. Linn. Soc.* ii. p. 160; *Gray, P. Z. S.* 1861, p. 435; *Wall, P. Z. S.* 1863, p. 485; *Rosenb. J. f. O.* 1864, p. 121; *Hartl. J. f. O.* 1865, p. 155; *Finsch, Neu-Guinea*, p. 171; *Gray, Hand-l. B.* i. p. 338, no. 5096.

Campophaga jardinii, *Gould, B. Austr. folio*, ii. pl. 60; *Bp. Consp.* i. p. 353; *Reichenb. Vög. Neuholl.* pp. 232, 283; *Gray, Cat. B. New Guinea*, p. 58; *Finsch, Neu-Guinea*, p. 171; *Ramsay, Ibis*, 1865, p. 84; *Gould, Handb. B. Austr.* ii. p. 290; *Gray, Hand-l. B.* i. p. 336, no. 5072; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. pt. 2, p. 181.

Graucalus jardinii, *Hartl. J. f. O.* 1864, p. 441.

Volvocivora plumbea, *Salvad. Ucc. Born.* p. 149.

Edoliisoma plumbea, *Salvad. & D'Albert. Mus. Civic. Genor.* vii. p. 24; *Salvad. op. cit.* ix. p. 27.

Edoliisoma mülleri, *Salvad. Ann. Mus. Civic. Genor.* vii. p. 927.

Adult male. General colour above dark slaty grey, a little more dingy on the head; scapulars and lesser wing-coverts like the back; median and greater series black, externally broadly margined with lighter slaty grey, hoary on the extreme margin; primary-coverts and primaries black, with a very narrow edging of grey, the secondaries more broadly margined and inclining to white near the tips of the outer webs of the inner secondaries; two centre tail-feathers dark ashy grey, with a subterminal spot of black, the remainder black, glossed with green on the outer margins and narrowly tipped with grey, increasing in extent towards the outermost, which are broadly tipped; lores, feathers in front of the eye, cheeks, and ear-coverts black; under surface of body dark slaty grey, darker and more leaden grey on the throat; under wing-coverts like the breast; quills blackish below, white at the base and for the greater part of the inner web, forming a conspicuous wing-lining; "bill blackish brown; legs very dark greenish grey; iris dark brown" (*Gould*). Total length 10 inches, culmen 0·95, wing 5·3, tail 4·2, tarsus 1·05.

Adult female. General colour above ashy brown, with a distinct

shade of ashy grey on the head, the feathers of the rump and upper tail-coverts with fulvescent edges; wing-coverts rather browner than the back, the greater series edged with light rufous; primary-coverts uniform brown; quills brown, with narrow fulvous margins, broader on the secondaries, some of which are edged with pale rufous; centro tail-feathers olive-brown, washed with ashy; the remainder dark brown, broadly tipped with fawn-buff, increasing in extent towards the outer ones, the outermost being fawn-buff along the whole of the outer web; lores and feathers in front of the eye hoary grey; in front of and behind the eye a dusky blackish spot; a streak over the eye and eyelid pale creamy buff; ear-coverts and sides of face dusky blackish, mottled with white spots; cheeks and throat creamy buff, as also the under surface of body, which is varied with narrow, waved, arrow-head lines of blackish; under tail-coverts, as well as under wing-coverts and axillaries, fawn-buff; quills dusky brown below, pale rufous along the inner webs. Total length 9·5 inches, culmen 0·9, wing 4·95, tail 4·2, tarsus 0·95.

Young. Resembling the old female, but with white tips to the inner secondaries and many of the feathers of the upper surface; wing-coverts and quills edged with deeper rufous, as also the eyebrow and eyelid; below deeper buff, and the throat barred as well as the rest of the under surface; under tail-coverts striped with dusky.

Hab. N.E. Australia and Queensland, Richmond and Clarence river districts, N. S. Wales (*Ramsay*); Aru Islands; New Guinea.

| | | |
|--------------|---------------|-------------------------|
| a. Ad. sk. | Australia. | Linnean Society [P.]. |
| b. Ad. st. | Australia. | |
| c. Juv. sk. | Port Albany. | Purchased. |
| d. ♀ ad. sk. | Port Moresby. | O. C. Stone, Esq. [C.]. |

17. *Edoliisoma nesiotis*.

Campephaga nesiotis, *Hartl. & Finsch, P. Z. S.* 1872, p. 98; *Finsch, Journ. Mus. Godefr.* Heft xii. p. 28, note.

Immature (type of species). Upper surface of body rufous-brown, with lighter edges of rufous-buff to some of the feathers; rump-feathers dark brown, with conspicuous rufous edges, the upper tail-coverts entirely rufous; scapulars like the back; lesser wing-coverts brown, edged with rufous; rest of the wing-coverts and quills dark brown, broadly edged with rufous, inclining to fulvous at the tips of the secondaries; tail-feathers rufous-brown, tipped with pale rufous, the outer feathers darker brown, internally lighter, and externally tipped with rufous-buff, more broadly on the outermost, which has also a line of pale rufous running along the shaft; crown of head dark brown, slightly shaded with ashy on the forehead; lores and a distinct eyebrow as well as the sides of the neck deep rufous; in front of the eye a black spot; sides of face a little paler rufous, the upper edge of the ear-coverts dusky; under surface of body rufous, the throat and chest uniform, only the sides of the breast with a few wavy cross lines of blackish; under wing-coverts deep rufous, as

also the quill-lining. Total length 9·4 inches, culmen 1·1, wing 4·75, tail 4·1, tarsus 1·1. (*Mus. Godeffroy.*)

Hab. Island of Uap, Mackenzie group.

Obs. Although not adult, the plumage of the type specimen kindly lent by the Godeffroy Museum, is so different from any other species that I believe the male, when discovered, will be found to be perfectly distinct.

18. *Edoliisoma grayi*.

Campephaga melanotis, *Gray*, *P. Z. S.* 1860, p. 353 (*nec Gould*);
Finsch, *Nou-Guinea*, p. 171.

Graucalus melanotis, *Hartl. J. f. O.* 1864, p. 441.

Graucalus, sp., *Gray*, *Hand-l. B. i.* p. 337.

Edoliisoma grayi, *Salvad. MSS.*

Adult male. General colour above leaden grey, the lesser wing-coverts like the back, the median and greater series black, externally lighter grey than the back, with a narrow and almost obsolete hoary margin; primary-coverts and quills black, narrowly margined with grey, the secondaries more broadly edged with grey; two centre tail-feathers leaden grey, with a large subterminal spot of black, the rest of the tail-feathers black with ashy spots at the tips, broader on the outer feathers; nasal bristles, feathers in front of the eye, eyelid, cheeks, and ear-coverts black; under surface of body leaden grey, with a blackish shade on the chin; under wing-coverts and axillaries a little paler grey than the breast; quills blackish below, hoary whitish along the inner web, greyer on the secondaries. Total length 10·2 inches, culmen 0·9, wing 4·9, tail 4·1, tarsus 0·9.

Adult female. Different from the male. Above warm brown, slightly shaded with ashy, the crown with leaden blue; lesser wing-coverts like the back, median and greater series broadly edged with rufous; bastard plumes and primary-coverts dark brown, the latter with a very narrow edging of rufous; quills black, broadly margined with rufous, the primaries rufous at the base, excepting the shaft of the quills, which is dark brown; centre tail-feathers rufescent, browner at the tip, the remainder dark brown, tipped with rufous, more extensive towards the outermost feather, which is rufous along the outer web also; feathers over the eye and upper and under edge of eyelid rufous-buff; lores hoary grey; feathers in front of and behind the eye blackish; sides of face mottled, the feathers dusky, spotted and streaked with fulvous; under surface of body rufous-buff, barred with blackish in narrow wavy lines, the under tail-coverts uniform; under wing-coverts and axillaries deep fawn-colour; quills ashy brown below, broadly rufous along the inner web. Total length 8·7 inches, culmen 0·9, wing 4·75, tail 3·6, tarsus 0·95.

Hab. Halmahera or Gilolo, Batchian, Ternate, Morty Island.

| | | |
|------------------|--------------|--------------------------|
| a. ♂ ad. sk. | Gilolo. | A. R. Wallace, Esq. [C.] |
| b. ♀ ad. sk. | E. Gilolo. | A. R. Wallace, Esq. [C.] |
| c. ♂ ad. sk. | Batchian. | A. R. Wallace, Esq. [C.] |
| d. ♀ ad. sk. | Batchian. | Purchased. |
| e, f. ♂ juv. sk. | Morty Island | A. R. Wallace, Esq. [C.] |

19. *Edoliisoma anale*.

Campephaga analis, *J. Ferr. et Des Murs, Rev. et Mag. de Zool.* 1860, p. 335, 1862, p. 132; *Hartl. J. f. O.* 1865, p. 156; *Gray, Hand-l. B. i.* p. 338, no. 5103.

Adult. Leadon grey above, paler below; under tail-coverts rufous chestnut; quills blackish; bill dusky; feet blackish; iris orange-yellow. Total length $9\frac{1}{2}$ ", bill from gape 9", wing 5", tail 4" 5". (*Hartlaub.*)

Young. Mottled and variegated below with rufous-white and blackish. (*Hartlaub.*)

Hab. New Caledonia.

6. *LOBOTUS*.

Type.

Lobotos, *Reichenb. Syst. Av.* pl. 54, fig. 12 (1850). *L. lobatus*.

Range. Confined to West Africa.

1. *Lobotus lobatus*.

Cobleyris lobatus, *Temm. Pl. Col.* 279, 280; *Less. Compl. Buff.* viii. p. 390; *Schinz, Abbild. Vög.* Taf. 31; *Less. Traité*, p. 309; *Rüpp Mus. Senckenb.* iii. p. 23.

Laniotus lobatus, *Less. Rev. Zool.* 1839, p. 197; *Bp. Cons.* i. p. 356.

Lobotos temmincki, *Reich. Syst. Av.* pl. 54, fig. 12; *Hartl. J. f. O.* 1855, p. 31; *id. Orn. W.-Afr.* p. 99; *Cass. Pr. Acad. N. Sci. Philad.* 1859, p. 52; *Hartl. J. f. O.* 1865, p. 171.

Campephaga lobata, *Gray, Gen. B. i.* p. 283; *id. Hand-l. B. i.* p. 356, no. 5062.

Adult male. Head all round, including the throat, glossy dark green, with a large yellow or orange lobe at the gape; back olive-yellow, brighter yellow near the hind-neck, the sides of the neck slightly washed with orange-chestnut; rump and upper tail-coverts orange-chestnut; wing-coverts olive-yellow like the back, the greater and median series with blackish bases; primary-coverts and quills black, the primaries edged with white, the secondaries with yellow; tail-feathers black, tipped with bright yellow, increasing in extent towards the outermost, the two centre feathers olive-green narrowly tipped with yellow, with a subterminal black shade; under surface of body from the throat downwards rich orange-chestnut; thighs, under wing- and tail-feathers bright yellow; quills ashy black below, margined with white along the inner web; bill and feet black (in skin). Total length 7·3 inches, culmen 0·65, wing 3·75, tail 3·6, tarsus 0·8.

Hab. West Africa.

a. ♂ ad. sk.

Interior of Fantee
(Governor Ussher).

R. B. Sharpe, Esq.

7. CAMPOPHAGA.

Type.

Campephaga, *Vicill. Analyse*, p. 39 (1816) C. nigra.
 Volvicivora, *Hodys. Ind. Review*, i. p. 328 (1837) . . C. melaschista.
 Lanicterus, *Lesson, Ann. Sci. Nat.* (2) ix. p. 169
 (1838) C. xanthornoides.
 Cyrtos, *Reichenb. Syst. Nat.* pl. lxxviii. fig. 11 (1850).

Range. Africa: India and Burmese countries to South China.

Key to the Species.

- a.* Entire plumage metallic or glossy steel-green or purplish, both above and below, with sometimes a yellow or red shoulder-spot.
- a'*. With a shoulder-patch of yellow or scarlet wing-coverts.
- a''*. Shoulder-patch scarlet *phænicea*, p. 59.
- b'*. Shoulder-patch yellow.
- a'''*. All the least and median wing-coverts *orange* *xanthornoides*, p. 60.
- b'''*. Only the least and outer median wing-coverts *lemon-yellow* *hartlaubi*, p. 62.
- b'*. Without any shoulder-patch.
- c'*. Below steel-green like the upper surface *nigra*, p. 62.
- d''*. Throat and breast purplish violet, contrasting with the rest of the upper surface, which is steel-blue *quiscalina*, p. 63.
- b.* Plumage iron-grey or light ash-y grey above and below, without metallic gloss.
- c'*. Under tail-coverts slaty grey like the rest of the under surface; centre tail-feathers black like the rest of the tail { *lugubris*, p. 65.
intermedia, p. 66.
saturata, p. 66.
- d.* Under tail-coverts white; centre tail-feathers grey, blackish towards the tips.
- e''*. Wings black, contrasting with the back.
- c'''*. No white on the quills below { *melanoptera* ♂, p. 67.
neglecta, p. 68.
- d'''*. Middle primaries with a large ovate spot of white on the inner webs *melanoptera* ♀, p. 67.
- f''*. Wings grey; quills black, externally grey; all the wing-coverts grey; inner webs of primaries broadly white *polioptera*, p. 69.

1. *Campophaga phoenicea*.

Red-winged Chatterer, *Lath. Gen. Syn. Suppl.* p. 146.

Ampelis phœnicea, *Lath. Ind. Orn.* i. p. 367.

Tanagra dubia, *Shaw, Not. Misc.* vii. pl. 252.

Turdus phoenicopterus, *Temm. Pl. Col.* ii. pl. 71.

Ceblepyris phœnicopterus, Less. *Traité*, p. 369; *Isid. Geoff. St.-Hilaire*, *Mag. de Zool.* 1832, pl. 9.

Campephaga phoenicea, *Swains. B. W. Afr.* i. p. 252, pls. 27, 28;

Gray, Gen. B. i. p. 283; Cab. Mus. Hein. i. p. 61; Hartl.

Orn. W.-Afr. p. 98; *Layard, B. S. Afr.* p. 153; *Gray, Hand-l.*
B. i. p. 336, no. 5060; *Sharpe, Ibis*, 1869, p. 189; *Finsch, Tr. Z. S.*

vii. p. 248; *Heugl. Orn. N.O.-Afr.* i. p. 418; *Bocage, Journ. Lish.* 1870, p. 343.

Ixus phœnicopterus, *Temm. Tabl. Méth.* p. 13.

Cebblepyris phœnicea, *Rüppell, Mus. Senckenb.* iii. p. 21; *Bp. Consp.* i. p. 353; *Heugl. Syst. Uebers.* p. 32, no. 307; *Antin. Cat. descr. Ucc.* p. 52.

Cebblepyris ignatii, *Heugl. Syst. Uebers.* p. 32, no. 306.

Laniaterus phœniceus, *Hartl. J. f. O.* 1865, p. 172; *Sharpe, Ibis*, 1870, p. 55; *id. Cat. Afr. B.* p. 52, no. 499; *Antin. & Salvad. Viagg. Bogos*, p. 76.

Adult male. General colour above and below glossy steel-blue black; least and median wing-coverts brilliant scarlet with yellow bases to the feathers, the greater series black, edged with steel-blue and yellow at the base; quills black, the secondaries with narrow steel-blue edgings; tail-feathers black, narrowly margined with steel-blue; quills below ashy brown, washed with olive along the inner web; "bill and feet black; iris dusky brown" (*Heuglin*). Total length 7·8 inches, culmen 0·6, wing 3·9, tail 3·75, tarsus 0·75.

Adult female. Above pale olivaceous dusky brown, the rump more ashy, the feathers for the most part banded with blackish and tipped with white; quills brightly and conspicuously margined with yellow; wing-coverts broadly margined with faint yellow before a terminal bar of black; tail-feathers olivaceous dusky brown, the outer ones more blackish, the two outermost at the tip and on the margin bright yellow; below whitish, partly washed with yellow and broadly banded with dusky; under wing-coverts and thighs bright yellow; "bill dusky blackish; feet greenish dusky; iris sometimes grey, sometimes umber" (*Heuglin, Orn. N.O.-Afr.* i. p. 417).

Young. Similar to the female: purer dusky greyish; head and nape mottled with dusky. (*Heuglin, loc. cit.*)

Obs. In the Museum are specimens of female birds agreeing with Von Henglin's descriptions above quoted; but as they were not identified by the collectors as being *C. phœnicea*, and they may be *C. xanthornoides*, I have thought it best to quote the descriptions of Henglin, which are authentic, as he has apparently only met with one species. See also my remarks on *C. xanthornoides*.

Hab. Western and North-eastern Africa.

| | | |
|--------------------------|--|------------------------|
| <i>a.</i> ♂ ad. st. | River Gambia. | Governor Rendall [C.]. |
| <i>b.</i> ♂ ad. sk. | River Gambia. | R. B. Sharpe, Esq. |
| <i>c.</i> ♂ ad. sk. | Gold Coast. | Colonel Strachan [P.]. |
| <i>d.</i> ♂ ad. sk. | Fantee (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. |
| <i>e, f.</i> [♀] ad. sk. | Fantee. | R. B. Sharpe, Esq. |
| <i>g.</i> ♀ ad. sk. | River Prah, May 1872 (<i>H. F. Blissett</i>). | R. B. Sharpe, Esq. |
| <i>h.</i> Ad. sk. | Tigré (<i>Esler</i>). | R. B. Sharpe, Esq. |

2. *Campophaga xanthornoides*.

Laniaterus xanthornoides, *Less. Ann. Sci. Nat.* (2) ix. p. 169; *Bp.*

Consp. i. p. 356; *Hartl. J. f. O.* 1865, p. 173.

Campophaga xanthornoides, *Gray, Gen. B.* i. p. 283.

Campephaga xanthornithoides (lapsu), Sharpe, *Ibis*, 1870, p. 55.

Lanicterus xanthornithoides, Sharpe, *Cat. Afr. B.* p. 52; Ussher, *Ibis*, 1874, p. 65.

Lanicterus, sp. nov., *Salvad. & Antin. Viagg. Bogos*, p. 76.

Adult male. General colour above and below glossy steel-black, the quills and tail-feathers black edged with steel-black; lesser and median wing-coverts bright orange-yellow, forming a large shoulder-patch; quills sepia-brown below, washed with olive along the inner webs. Total length 7·2 inches, culmen 0·6, wing 3·65, tail 3·5, tarsus 0·75.

Young male. Above ashy brown, the head, neck, and mantle uniform; scapulars yellowish, barred across with black; lower back, rump, and upper tail-coverts paler and more whitly brown than the rest of the back, here and there tinged with rufous, narrowly barred with glossy greenish black; wing-coverts dull yellowish, the median and greater series dark brown, edged and tipped with bright yellow; quills brown, margined with yellow; tail-feathers blackish, tipped with yellow, increasing in extent towards the outermost, the middle feathers olive, browner on the inner web; lores and eyebrow white; round the eye a ring of buffy white feathers, and in front of and behind the eye a dusky blackish spot; ear-coverts pale ashy brown, with whitish shaft-streaks; throat white, with scarcely any cross-markings; rest of under surface of body white, somewhat washed with yellow and barred across with blackish lines: under wing-coverts and inner linings of quills bright yellow.

Obs. The above description is taken from an *Acerà* skin, sent along with an adult male of the present bird; the female bird is very similar without doubt, but that the present is a male and not a female is proved by the presence of a single bright orange feather among the wing-coverts. It is strange that with a bird by no means rare in collections there should be so much difficulty in finding out the correct female plumage; but the majority of skins reach us without any indication of sex. In his recent book Professor Bocage has endeavoured to solve the question by making the yellow-shouldered bird (*C. xanthornithoides*) the female of the Black Caterpillar-catcher of South Africa (*C. nigra*). This is scarcely feasible; for, in the first place, I have the female bird of the latter, sent with the male by Mr. T. C. Atmore, both sexes having been determined by dissection*. Again, if *C. xanthornithoides* were the female of *C. nigra*, how is it that we do not find the latter in West Africa, but only the former?

It has also been put forward that *C. xanthornithoides* is a stage of *C. phænicea*. This seems more probable, as the two birds are almost of the same dimensions, and only differ in the colour of the shoulder-patch. Governor Ussher thought that the yellow-shouldered bird was the older; but this I cannot coincide with, as we have in the Museum a specimen commencing to put on the yellow shoulder while still in the mottled or young plumage. That the other species changes direct from a similar plumage to the full scarlet shoulder

* *Vide infra*, p. 63.

seems to be proved by Isidore Geoffroy's plate of *C. phœnicea*. Lastly, if the two birds are identical, how comes it that only a yellow-shouldered bird occurs in South Africa, and that a red-shouldered bird has never been seen there?

Hab. Western and North-eastern Africa.

| | | |
|-------------------------|--------------------------------|-------------------------|
| a. ♂ ad., b. juv. sk. | Accrà (<i>Capt. Haynes</i>). | R. B. Sharpe, Esq. |
| c. ♂ ad., d. ♂ jun. sk. | Accrà. | R. B. Sharpe, Esq. [P.] |
| e. ♂ ad. st. | West Africa. | J. Gould, Esq. |
| f. ♂ ad. st. | West Africa. | |
| g. ♂ ad. sk. | Tigré (<i>Esler</i>). | R. B. Sharpe, Esq. |

3. *Campophaga hartlaubi*.

Campophaga xanthornoides, *Layard, B. S. Afr.* p. 153 (*nec Less.*); *Bocage, Journ. Lish.* 1868, p. 43.

Campophaga phœnicea ♀, *Bocage, l. c.* p. 43.

Campophaga melanoxantha, *Gurney, Ibis*, 1868, p. 45 (*nec Licht.*); *id. in Anderss. B. Dan. Id.* p. 134, note; *Gray, Hand-l. B. i.* p. 336.

Laniaterus hartlaubi, *Salvad. Ann. Mus. Cicic. Genor.* iv. p. 439.

Adult male. Very similar to *C. xanthornoides*, but distinguished by its having the shoulder-spot lemon-yellow instead of orange, and confined to the least wing-coverts and the outermost of the median series, whereas in *C. xanthornoides* the shoulder-patch is formed of the entire median and lesser coverts. Total length 8·5 inches, culmen 0·7, wing 4·15, tail 4·6, tarsus 0·8. (*Mus. G. E. Shelley.*)

Hab. South Africa.

| | | |
|--------------|--------|------------|
| a. ♂ ad. sk. | Natal. | Purchased. |
|--------------|--------|------------|

4. *Campophaga nigra*.

L'Echenilleur jaune, *Lecaill. Ois. d'Afr.* iv. p. 49, pl. 164.

L'Echenilleur noir, *Lecaill. Ois. d'Afr.* iv. p. 51, pl. 165.

Campophaga flava, *Vicill. N. Dict.* x. p. 49.

Campophaga nigra, *Vicill. N. Dict.* x. p. 50; *Gray, Gen. B. i.* p. 283; *Gurney, Ibis*, 1864, p. 350; *Gray, Hand-l. B. i.* p. 335, no. 5058; *Gurney in Anderss. B. Dan. Id.* p. 133; *Bocage, Orn. Angola*, p. 206.

Muscipeta labrosa, *Suainv. Zool. Illustr.* 1st ser. iii. pl. 179.

Cebblepyris ater, *Lesson, Traité*, p. 369.

Laniaterus swainsoni, *Lesson, Ann. Sci. Nat.* (2) ix. p. 170.

Cebblepyris nigra, *Rüpp. Mus. Senckenb.* iii. p. 21; *Bp. Conspect.* i. p. 353.

Campophaga labrosa, *Gray, Gen. B. i.* p. 283.

Laniaterus labrosus, *Bp. Conspect.* i. p. 356.

Laniaterus niger, *Hartl. J. f. O.* 1865, p. 173; *Sharpe, Cat. Afr. B.* p. 52; *Sharpe et Bour. Bull. Soc. Zool. France*, i. p. 308.

Campophaga niger, *Layard, B. S. Afr.* p. 152; *Shelley, Ibis*, 1875, p. 77.

Adult male. General colour above and below glossy steel-black with somewhat of a greenish cast; wing-coverts, quills, and tail-feathers, under wing- and tail-coverts blackish, edged with the same steel-green as the back; quills below greyish brown, with a quill-lining of olive-yellow along the inner web; "bill black, yellow at

gape, tarsi and feet black; iris very dark brown" (*T. Ayres*). Total length 8·3 inches, culmen 0·65, wing 4·1, tail 4·1, tarsus 0·75.

Adult female (Eland's Post, *T. C. Atmore*). Mottled; upper surface of body ashy brown, the head and hind neck uniform and slightly tinged with yellowish; the feathers of the back also somewhat washed with yellow and transversely barred with black, which has a steel-green lustre, the latter being less distinct on the bars across the lower back, rump, and upper tail-coverts, all of which are thickly barred across; wing-coverts blackish brown, broadly edged and tipped with yellow, the least series narrowly edged with yellow, before which is an indistinct bar of steel-green; primary-coverts and quills blackish, externally edged with yellow, brighter on the secondaries: two centre tail-feathers olive-brown, washed with yellow on the margin; the next one on each side brown on the inner web, olive-brown on the outer; the next one blackish brown, narrowly tipped and edged on both webs with bright yellow; the three outermost blackish, tipped with bright yellow, increasing in extent towards the outermost, and edged with the same colour on the outer web, which is entirely yellow on the outermost feather; all the feathers edged with yellow also along their inner webs: lores buffy whitish; feathers in front of eye dusky brown; round the eye a ring of fulvous feathers; ear-coverts dusky brown, with distinct white shaft-lines; cheeks and under surface of body white, barred with blackish brown, arrow-shaped on the under tail-coverts, and indistinctly indicated on the throat and abdomen; sides of breast washed with yellow; thighs yellow, barred with dusky brown; under wing-coverts and axillaries brilliant yellow, as also the inner webs of the quills below for the greater part of their length. Total length 8·1 inches, wing 4, tail 4, tarsus 0·75.

Hab. South Africa.

| | | |
|--------------------------|---|---------------------------|
| <i>a.</i> ♂ ad. sk. | Kingwilliamstown. | Lieut. H. Trevelyan [P.]. |
| <i>b.</i> ♂ pull. sk. | Near Pammure. | Lieut. H. Trevelyan [P.]. |
| <i>c, d.</i> ♂ ♀ ad. sk. | Eland's Post, S.E. Africa (<i>T. C. Atmore</i>). | R. B. Sharpe, Esq. |
| <i>e.</i> ♂ ad. sk. | Transvaal (<i>T. Ayres</i>). | R. B. Sharpe, Esq. |
| <i>f.</i> ♂ ad. sk. | Elephant Vley, Oct. 20, 1859 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. |
| <i>g.</i> [♂] juv. sk. | South Africa. | R. B. Sharpe, Esq. |
| <i>h.</i> ♂ ad. st. | South Africa. | Dr. Lee [P.]. |
| <i>i.</i> ♂ juv. sk. | South Africa. | R. B. Sharpe, Esq. [P.]. |

5. *Campophaga quiscalina*.

Campophaga nigra, *Cass. Pr. Philad. Acad.* 1859, p. 52 (*nec V.*).

Laniaterus niger, *Hartl. J. f. O.* 1865, p. 173 (*nec V.*).

Campophaga quiscalina, *Fisch, Ibis*, 1869, p. 189; *Gray, Hand-l. B.* i. p. 335, no. 5059.

Laniaterus quiscalinus, *Sharpe, Cat. Afr. B.* p. 52.

Campophaga fulgida, *Reichen. J. f. O.* 1874, p. 345, et 1875, p. 26 (type examined).

Adult male (type of species). General colour above shining steel-

green, inclining to deep steel-blue on the head, the hind neck purple; wings black, all the feathers broadly margined with the same steel-green as the back; tail black, edged with steel-green; lores velvety black; cheeks, sides of face, sides of neck, and entire throat and fore neck purplish violet, shading off into rich steel-blue on the rest of the under surface of the body; under wing-coverts purplish; "bill and feet black; iris blackish brown" (*Reichenow*). Total length 8·5 inches, culmen 0·6, wing 3·75, tail 3·6, tarsus 0·8.

Adult female. General colour above olive-yellowish, brighter on the rump and upper tail-coverts; head and nape uniform grey; wing-coverts olive-yellow like the back; quills brown, externally margined with olive-yellow; tail-feathers olive, browner on their inner webs, tipped with pale yellow, increasing on the outer web towards the outermost feathers; lores whitish, mottled with dusky edges to the feathers, extending a little behind the eye and forming an indistinct eyebrow; round the eyes a ring of buffy white feathers; in front of and behind the eye a dusky blackish spot; ear-coverts dusky brown, with narrow white shaft-lines; throat buffy white; rest of the under surface of the body bright yellow, including the under wing- and tail-coverts and the lining of the quills. Total length 7·2 inches, wing 3·85, tail 3·8, tarsus 0·75.

Young. Similar to the female, but mottled on the upper surface, the feathers being edged with dull white, before which is a subterminal bar of brown; wing-coverts and secondaries tipped with pale yellow and subterminally barred with brown; throat white; rest of under surface bright yellow, the breast rather thickly barred across with brown, these bars less numerous on the flanks and under tail-coverts.

Obs. The changes of plumage in this species are satisfactorily explained by the series in the British Museum. A bird was sent home by Mr. Blissett to the author as a dissected female of one of the West-African Caterpillar-catchers; and there is no doubt of its being a female of the present species, as he also sent a young male changing from the immature plumage (exactly like that of the adult female) to the glossy dress of the male. The feathers being donned on the wing-coverts are not yellow or red, but steel-black, showing that it cannot be referred to any species but *C. quiscalina*.

Hab. West Africa; Gold Coast district.

| | | |
|---------------------------------------|---|--|
| <i>a.</i> [♂] ad. sk. | Fantee. | R. B. Sharpe, Esq. (Type of species.) |
| <i>b.</i> [♂] ad. sk. | Fantee (<i>A. Swanzy</i>). | R. B. Sharpe, Esq. |
| <i>c.</i> [♂] ad. sk. | Fantee. | Purchased. |
| <i>d.</i> ♀ ad. sk. | Wassaw, March 1872 (<i>H. F. Blissett</i>). | R. B. Sharpe, Esq. |
| <i>e.</i> ♂ juv. sk. | Ekraful, May 20, 1872 (<i>H. F. Blissett</i>). | R. B. Sharpe, Esq. |
| <i>f.</i> [♀ ad., <i>g.</i> juv. sk.] | Denkera (<i>Aubin</i>). | R. B. Sharpe, Esq. [P.] |
| <i>h.</i> [♀ ad. sk.] | Accrà. | R. B. Sharpe, Esq. [P.] |

6. *Campophaga lugubris*.

- Lanius sitens*, *Tickell, J. A. S. B.* ii. p. 573 (1833, *nec Shaw*).
Ceblepyris lugubris, *Sundev. Lund Sällsk. Tidskr.* vol. i.; *id. Ann. N. H.* xviii. p. 100.
Volvocivora melaschistus, *Hodgs. Ind. Review*, i. p. 328; *Jerd. B. Ind.* i. p. 415; *Bull, Str. F.* 1874, p. 399; *Hume, Str. F.* 1875, p. 93, 1877, p. 205.
Graucalus maculosus, *McClell. P. Z. S.* 1839, p. 159.
Campephaga fimbriata (*nec Temm.*), *Blyth, J. A. S. B.* xv. p. 306; *id. Cat. B. Mus. A. S. B.* p. 191.
Campephaga lugubris, *Gray, Gen. B.* i. p. 283.
Volvocivora fimbriata (*nec Temm.*), *Bp. Consp.* i. p. 356.
Campephaga melaschistus, *Gray, Hand-l. B.* i. p. 338, no. 5105.
Volvocivora lugubris, *Cab. Mus. Hein.* i. p. 61; *Hartl. J. f. O.* 1865, p. 161; *Swinhoe, Ibis*, 1870, p. 243.
Volvocivora melanura, *Hartl. J. f. O.* 1865, p. 162 (type examined).

Adult male. General colour above and below dark iron-grey with a slaty gloss, the rump and upper tail-coverts slightly paler slate-colour, the under surface also rather paler towards the abdomen and under tail-coverts; wings black, the lesser coverts iron-grey like the back, the remainder of the coverts and the quills glossed with steel-green, especially on the edges of the feathers; tail black, glossed with steel-green, the two centre feathers with a narrow grey tip, all the others tipped with a white spot, which increases in size towards the outermost feather, where it has a subterminal shade of ashy grey; feathers in front of the eye, cheeks, region of the eye, and ear-coverts black, darker than the head; under wing-coverts like the breast, or dull brown edged with iron-grey; quills blackish below, dull brown along the edge of the inner web; "bill and legs black; iris hazel-brown" (*Jerdon*). Total length 9·3 inches, culmen 0·7, wing 4·7, tail 4·4, tarsus 0·9.

Adult female. Differs from the male in being lighter and in having the feathers in front of the eye and sides of face dusky blackish, not of such a deep black as in the male. Total length 9·5 inches, culmen 0·65, wing 4·65, tail 4·4, tarsus 0·8.

Young. Browner than the adult, and mottled all over with tips of white buff to the feathers, before which light tip runs a subterminal blackish bar; the wing-coverts tipped in the same way, the greater coverts mottled with rufous marblings near their tips; quills edged and tipped with white; tail-feathers broadly tipped with white, these white tips often pencilled with brown; ear-coverts and feathers in front of the eye dusky blackish, spotted and streaked with white; under surface of body dull greyish white, barred across with dusky blackish, the abdomen and under tail-coverts much whiter, the bars more wavy and wider apart; under wing-coverts dusky grey, white at tip, barred with black lines.

Hab. Indian peninsula.

a-c. Ad., *d, e*. Juv. sk. Nepal.
f, g. Pull. sk. Nepal.
h. Ad., *i*. Jun. sk. Darjiling.
k. Imm. sk. Darjiling.

B. H. Hodgson, Esq. [P].
 B. H. Hodgson, Esq. [P].
 J. Fotheringham, Esq. [C].
 Capt. C. H. T. Marshall [P].

| | | |
|--------------------------------------|-----------------|-------------------------------|
| <i>l, m.</i> Ad., <i>n.</i> Juv. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.] |
| <i>o.</i> ♀ imm. sk. | Murree. | Capt. J. Biddulph [C.] |
| <i>p, q.</i> Ad. sk. | Murree. | Capt. C.H.T. Marshall [P.] |
| <i>r, s.</i> Ad. st. | Nepal. | B. H. Hodgson, Esq. [P.] |
| <i>t, u.</i> Ad. st. | Behar. | B. H. Hodgson, Esq. [P.] |

7. *Campophaga intermedia*.

Volvocivora intermedia, *Hume, Str. F.* 1877, p. 205; *id.* & *Davidson, Str. F.* 1878, p. 210.

Volvocivora melaschistus, *Walden in Blyth's B. Burm.* p. 123; *Hume, Str. F.* 1874, p. 474.

"It is very close to *Volvocivora melaschistus*, and, as such, I originally identified it; but with twenty-four specimens before me I find that, sex being ascertained, no specimen of it can be mistaken for a specimen of the corresponding sex of *V. melaschistus*; but it is much the same size, and the old males are as nearly as possible the same colour as the females of *V. melaschistus*. Except as regards colour, I can point at present to no unfailing and absolute diagnosis between it and *V. melaschistus*. But, as a rule, the exterior lateral tail-feather is longer. In no specimen is this latter more than 1·2 inch shorter than the middle one, and, as a rule, it is only about 1 inch shorter. Usually there is a great deal more white upon the tail, the white tippings being conspicuously broader. As to size of bill, I can say nothing; for in both this race and the true *V. melaschistus* the bill varies extraordinarily in dimensions. Wing of males varying from 4·55–4·84, of females from 4·4–4·7." (*A. O. Hume.*)

Hab. Hills of Tenasserim, extending in the cold weather to the sea-board and plains of Pegu.

8. *Campophaga saturata*.

Volvocivora saturata, *Swinhoe, Ibis*, 1870, p. 242; *id.* *P. Z. S.* 1871, p. 378; *David & Oustal. Ois. Chine*, p. 103.

Adult male (Hainan, Feb. 1868; type of species). General colour above very dark slaty grey, the upper tail-coverts with obsolete whitish margins; wings black, with a slight greenish gloss, the quills narrowly margined with ochraceous or buffy white; tail-feathers greenish black, tipped with white, the white ends becoming broader towards the outermost; the middle tail-feathers shaded with grey towards the base; sides of face dark slaty grey, the feathers in front of the eye blackish; under surface of body dark slaty grey, paler on the under tail-coverts, the longest of which are tipped with white; under wing-coverts and axillaries, like the breast, those on the edge of the wing margined with lighter grey; quills blackish below, with an obscure white patch about halfway down the quills, formed by a broad white edging to the middle portion of the inner webs of the primaries. Total length 7·6 inches, culmen 0·7, wing 4·45, tail 4·1, tarsus 0·85. (*Mus. H. Seeborn.*)

Adult female. Similar to the male; but the back more shaded

with ashy brown, the wing-coverts narrowly edged with grey, the primaries margined with white, the secondaries externally shaded with grey; tail-feathers as in the male, but the centre ones grey for two thirds of their length, black at the ends; under surface of body dark grey, with a shade of rusty brown surrounding the breast and flanks; quills as in the male below, but the white patch on the inner webs larger. Total length 7·7 inches, culmen 0·75, wing 4·5, tail 3·9, tarsus 0·75. (*Mus. R. Swinhoe.*)

Obs. This is a small dark-coloured race of *C. lugubris*, and is apparently distinct from either *C. intermedia* or *C. neglecta* of Mr. Hume, of which I am unable to judge personally, as I have never seen a specimen of either of them.

Hab. Island of Hainan.

9. *Campophaga melanoptera*.

*Ceblepyris melanoptera**, *Rüpp. Mus. Senckenb.* iii. p. 25, Taf. ii. fig. 1 (descr. orig.).

Campephaga tricolor, *Gray, Gen. B.* i. p. 283 (*see Swains.*).

Campephaga melanoptera, *Blyth, J. A. S. B.* xv. p. 307; *id. Cat. B. Mus. A. S. B.* p. 191.

Campephaga avensis, *Blyth, Cat. B. Mus. A. S. B.* p. 327; *Gray, Hand-l. B.* i. p. 338, no. 5107.

Volucivora melanoptera, *Bp. Consp. Av.* i. p. 356; *Hartl. J. f. O.* 1865, p. 162; *Blarf. Ibis*, 1870, p. 468.

Volucivora avensis, *Hume, Str. F.* 1871, p. 474, 1875, p. 93, 1877, p. 205; *Blyth & Walden, B. Burm.* p. 123; *Hume & Davison, Str. F.* 1878, p. 209.

Volucivora melaschistus (*see Hodgk.*), *Swinh. P. Z. S.* 1863, p. 282, et 1871, p. 378; *David & Oustalet, Ois. Chine*, p. 103.

Adult [male]. General colour above light bluish grey, paler on the lower back, rump, and upper tail-coverts; wings black, with a steel-green gloss, the least wing-coverts like the back, the rest of the coverts and the inner secondaries with obsolete greyish edges to the feathers, the primaries also with remains of grey margins; tail-feathers black, with a steel-green gloss, all of them tipped with white, the two centre feathers edged with grey more narrowly, the others broadly, the white tip increasing in extent towards the outermost; the feathers in front of and round the eye, ear-coverts, and cheeks rather dusky; under surface of body bluish grey like the back, paling on the abdomen, the thighs dark slaty, the under tail-coverts pure white; under wing-coverts and axillaries like the breast; quills dusky brown below, the inner webs edged with lighter brown. Total length 7·7 inches, culmen 0·7, wing 4·5, tail 4·0, tarsus 0·8.

Adult [female]. General colour above cindery grey, becoming conspicuously lighter on the lower back, rump, and upper tail-coverts,

* Dr. Hartlaub, in his 'Monograph,' refers this species of Rüppell's to *C. lugubris*; but this it cannot be, as the under tail-coverts are white (*ventre et crisse albis*). It can scarcely be any species but *C. avensis*, of Blyth, over whose name Rüppell's takes precedence.

which are decidedly ashy grey; least wing-coverts like the back, remainder of the wing-coverts and quills black glossed with steel-green and narrowly edged with grey; centre tail-feathers grey, gradually shading off into greenish black towards the ends of the feathers, which are narrowly edged with ashy grey at the tips; remainder of the tail-feathers black, glossed with steel-green and tipped with white, becoming broader on the outer ones; lores and feathers in front of the eye hoary grey; ear-coverts grey, with white shaft-lines; remainder of under surface light grey, becoming more of a fulvous ashy colour towards the abdomen, the under tail-coverts creamy white; thighs ashy grey; under wing-coverts and axillaries ashy below; quills ash-coloured underneath, with a large spot of white on the inner webs of the middle primaries. Total length 9·3 inches, culmen 0·75, wing 4·5, tail 4·1, tarsus 0·85.

Obs. I was inclined to consider the bird here described as a female to belong really to another species, on account of the white patch on the primaries; but I find that Mr. Hume notices it in the female *C. melanoptera*. An examination of Mr. Swinhoe's specimens from Ningpo, Foochow, and Canton shows that the birds determined by him to be *Volvocivora melaschistus* are really referable to *C. melanoptera*.

Hab. Burmah and Pegu; China.

| | | |
|----------------|----------------|-------------------------------|
| a. [♀] ad. sk. | Burmah. | Capt. Stackhouse Pinwill [P.] |
| b. [♂] ad. sk. | Bassein, Pegu. | W. T. Blanford, Esq. [P.] |

10. *Campophaga neglecta*.

Volvocivora neglecta, *Hume, Stray F.* 1877, p. 203; *id. & Davison, S. F.* 1878, p. 210.

Adult male. "Lores blackish dusky; the cheeks and ear-coverts are blackish slaty; the entire upper surface of the bird, including scapulars and lesser wing-coverts, the chin, throat, upper breast, and sides of the neck are of a beautiful uniform blue-grey, paler than in the palest female *V. melaschistus*, but darker than the male *V. avensis*. The colour is slightly darker on the crown, where, as in other species, there is a faint indication of darker striations, and it is slightly paler on the rump and the upper tail-coverts; the ear-coverts are duskiest, but scarcely darker than crown and throat; the lower breast and abdomen and the wing-lining are the same colour as the rump, becoming paler towards the vent, which, with the lower tail-coverts, are pure white; the wings, except the lesser wing-coverts, are black, with a distinct greenish lustre; the median and greater coverts, secondaries, and tertiaries are edged with the colour of the back; the primaries, except the first four or five, are narrowly margined and conspicuously, though narrowly, tipped with white; the tail is black, the central tail-feathers grey for nearly half their length, margined with paler grey throughout and tipped with nearly pure white; the whole of the lateral tail-feathers are broadly tipped with pure white, the external ones most broadly so to the extent of about half an inch; the exterior lateral tail feathers

are scarcely 0·5 inch shorter than the central ones, and the penultimate pair are only 0·2 shorter. Total length 8·12 inches, bill from gape 0·85, expanso 13·0, wing 4·1, tail 3·55, tarsus 0·76." (*Hume.*)

"Two old females, unfortunately not measured in the flesh, are precisely similar, except that the wings, which measure 3·8 and 3·95 respectively, want the slaty and white edgings and tippings, and also want the grey shade on the tail, while the four central tail-feathers have almost dropped their white tippings. In these two the exterior lateral tail-feathers are 0·6 and 0·65 shorter than the central ones." (*Hume.*)

Hab. South of the Tenasserim provinces.

Obs. The diagnosis of the species is given by Mr. Hume as follows:—"Intermediate in colour between *V. meluschistus* and *V. melanoptera* vel *avensis*, but much smaller than either: wing in the largest male 4·17; outermost tail-feather only, at most, 0·75, and generally only about 0·65 inch shorter than central tail-feathers."

11. *Campophaga polioptera*. (Plate II.)

Adult. General colour above ashy grey, rather darker on the head and lighter on the rump and upper tail-coverts; least wing-coverts like the back, the median and greater coverts rather paler grey; bastard wing and primary-coverts black, narrowly margined with grey; primaries black, narrowly edged with grey, whitish towards the tip and very broadly white on the inner web; secondaries black, externally grey, inclining to white at the tips; two centre tail-feathers ashy grey, shading into black towards the tip, which is white; remainder of the tail-feathers black tipped with white, which tip increases in extent towards the outermost, where it is very broad; sides of face like the crown, a little dusky in front of the eyes and on the ear-coverts; under surface of body light grey, darker on the throat and paling towards the abdomen and vent; under tail-coverts white; under wing-coverts and axillaries light grey; quills dusky brown below, the inner webs white for more than half their length. Total length 8·3 inches, culmen 0·6, wing 4·15, tail 3·4, tarsus 0·75.

Adult female (?). Differs from the adult male in having hoary whitish edgings to the feathers of the rump and upper tail-coverts; two centre tail-feathers grey, with a subterminal black spot, the next on each side black, tipped with white and grey for the greater part of the outer web, the rest black broadly tipped with white; lores mottled with white edges; ear-coverts grey, streaked with white; entire under surface of body dull white, barred across with dusky blackish cross lines; the under tail-coverts whiter, with the cross bars further apart. Total length 8·7 inches, culmen 0·65, wing 4·1, tail 3·6, tarsus 0·75.

Hab. Cochin China.

a, b. [♂] ad., *c.* [♀] ad. sk.

Cochin China.

M. E. Pierre [P.].

8. PERICROCOTUS.

| | |
|---|------------------------|
| Pericrocotus, <i>F. Boie, Isis</i> , 1826, p. 972 | Type. |
| Phœnicornis, <i>H. Boie, Isis</i> , 1827, p. 725 | <i>P. miniatus</i> . |
| Acis, <i>Lesson, Traité d'Orn.</i> p. 388 (1831) | <i>P. peregrinus</i> . |
| <i>Cf. Hume, Stray Feathers</i> , v. p. 171. | <i>P. miniatus</i> . |

Leg of *Pericrocotus speciosus*.

Range. India and Ceylon, ranging through the Burmese countries to China and Formosa, as far north as Amoorland, extending southwards through the Malayan peninsula to Java, Sumatra, Borneo, and the Philippine archipelago.

Key to the Species.

- a.* Tail-feathers tipped with red or yellow.
 - a'.* Sides of face and throat black, like the head.
 - a''.* Inner secondaries with red spots near the tip of the outer web, in addition to the basal bar.
 - a'''.* Breast and wing-markings fiery vermilion.
 - a⁴.* Two first primaries without any red mark on the outer web.
 - a⁵.* Central tail-feathers as a rule black. *speciosus*, p. 71.
 - b⁵.* Central tail-feathers almost invariably with more or less of the outer webs red *elegans*, p. 73.
 - b⁴.* Three first primaries without any red mark on the outer web. ^a
 - c⁵.* Very rarely a portion of outer webs of the central tail-feathers red. ... *andamanensis*, p. 73.
 - d⁵.* Outer webs of the central tail-feathers always red *flammifer*, p. 74.
 - a⁴.* Four first primaries without any red mark on the outer web *xanthogaster*, p. 74.
 - b'''.* Breast and wing-markings orange-red.
 - d⁴.* Larger: wing 3.5 inches; thighs blackish *flammeus*, p. 75.
 - e⁴.* Smaller: wing 3.2 inches; thighs orange-yellow, the extreme bases to these feathers blackish *ecsal*, p. 76.
 - b''.* Inner secondaries wholly black at the tips, with no red spots near the end of the outer web.
 - c'''.* Size small: upper surface ashy grey; lower abdomen and under tail-coverts white, tinged with yellow *peregrinus*, p. 76.
 - d'''.* Size larger: upper surface glossy black; lower abdomen and under tail-coverts red.

- f*⁴. Under wing-coverts and a basal mark
on lower quills yellow *igneus*, p. 78.
- g*¹. Under wing-coverts and wing-lining
rosy or crimson.
- e*⁵. Greater coverts crimson, with broad
black base, this equalling the red
colour in extent } *brevirostris*, p. 79.
..... } *neglectus*, p. 80.
- f*⁵. Greater coverts almost entirely
crimson, the basal blackish mark-
ings scarcely perceptible *minidatus*, p. 80.
- b*¹. Sides of face greyish; the throat not black,
but grey or buff-coloured or white, always
lighter than the head.
- c*¹. Tail-feathers tipped with fiery orange or
vermilion.
- c*¹¹. Upper surface ashy grey, with a rosy
tinge on the rump; below light rosy,
a little whiter on the chin and abdo-
men; inner secondaries with a narrow
apical margin of rosy colour *roseus*, p. 81.
- f*¹¹. Upper surface blackish, the lower back
and rump fiery vermilion.
- k*¹. Chin grey; throat yellow *solaris*, p. 82.
- i*¹. Entire throat greyish, with a slight
yellow tinge *griseigularis*, p. 83.
- d*¹. Tail-feathers tipped with pale yellow;
alar speculum also pale yellow; under
surface of body white, as also a broad
frontal band *cantonensis* ♀, p. 84.
- b*. Tail-feathers pure white at the ends.
- c*¹. Breast white or ashy; wing 3·4–3·7 inches.
- e*¹. Size larger: wing 3·7 inches; rump and
upper tail-coverts slaty grey, like the
mantle and scapulars; hinder crown black;
forehead white *cinereus*, p. 83.
- f*¹. Size smaller: wing 3·4 inches; rump and
upper tail-coverts ashy brown, contrasting
strongly with the grey back; the head
scarcely darker than the mantle *cantonensis* ♂, p. 84.
- d*¹. Breast rosy or vermilion; wing 2·5–2·65 inches.
- g*¹. Forehead black like the head *erythropygus*, p. 85.
- h*¹. Forehead white *albifrons*, p. 86.

1. *Pericrocotus speciosus*.

Black-and-Scarlet Thrush, *Lath. Gen. Syn. Suppl.* p. 14.

Turdus speciosus, *Lath. Ind. Orn.* i. p. 363.

Muscipeta princeps, *Vigors, P. Z. S.* 1830, p. 22.

Phoenicornis princeps, *Gould, Cent. Himal. B.* pl. 7; *Jerd. Mahr. Journ.* x. p. 243.

Pericorotus speciosus, *Gray, Gen. B. i. p. 282; Blyth, J. A. S. B. xv. p. 309; id. Cat. B. Mus. A. S. B. p. 112; Bp. Consp. i. p. 357; Horsf. & Moore, Cat. B. Mus. E. I. Co. i. p. 143; Gould, B. Asia, part ix.; Blyth, Ibis, 1866, p. 368; Jerd. B. Ind. i. p. 419; Gray, Hand-l. B. i. p. 334; Swinh. P. Z. S. 1871, p. 379; Hume, Nests & Eggs Ind. B. p. 182; Sharpe, Str. F. 1876, p. 207; Hume, Str. F. 1877, p. 192.*

Adult male. Upper surface of a glossy black colour; lower back, rump, and upper tail-coverts fiery vermilion; scapulars, wing-coverts, and primary-coverts black, the greater series vermilion, the inner ones black, vermilion on outer web; quills black, fiery vermilion for the basal half and black at extreme base, the three innermost secondaries with a bright vermilion spot near the apex of the outer web; tail fiery vermilion, the extreme bases of the feathers black, the two centre feathers also black, but inclining to vermilion towards the tip of the outer web, but this red colour often broken with black markings; sides of face and entire throat glossy black like the head; rest of under surface fiery vermilion, including the under wing-coverts, which have, however, very broad black bases; thighs black; bill and legs black; irides dark brown. Total length 7.5 inches, culmen 0.65, wing 3.95, tail 4.1, tarsus 0.7.

Adult female. Above grey, the lower back, rump, and upper tail-coverts yellow; forehead, sides of face, and under surface of body bright yellow, including the under wing-coverts; wings black, the least coverts greyer, washed with yellow, the greater series black, broadly tipped with bright yellow; quills black, the basal part bright yellow of all but the two outermost primaries and innermost secondaries, four of which have a spot of yellow near the tip of the outer web, the extreme bases of all the feathers black; tail black, with broad yellow tip, increasing towards the outermost feather, the two centre feathers blackish, slightly marked with yellow at the tip of the outer web. Total length 8 inches, culmen 0.7, wing 3.9, tail 4.0, tarsus 0.7.

Young. Coloured like the old female, but more ashy, and most of the feathers margined with yellow; underneath yellow. Particoloured specimens of the young male are in the collection, with the full plumage in process of assumption by a moult.

Hab. Himalayas, westwards as far as the valley of the Yonse, eastwards to Western Bhotan; in the cold season to the plains of Tipperah, and in Midnapore, Chôta Nagpore, the Tributary Mehals, the northern portion of the Ganjam district, and Sumbawhulpeor, the most eastern of the Central Provinces districts (*Hume*); Burmese Hills; China.

| | | |
|---------------------------|---|--------------------------------|
| <i>a, b.</i> ♂ ♀ ad. sk. | India. | J. T. Jerdon [P.]. |
| <i>c.</i> ♂ ad. sk. | Moalmaza. | |
| <i>d, e.</i> ♂ ♀ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>f, g.</i> ♂ ♀ ad. st. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>h, i.</i> ♂ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>k, l, m.</i> ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>n, o.</i> Juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>p.</i> Imm. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>q.</i> ♂ ad. sk. | Ponsee, Kakhien Hills, March 14, 1868. | Dr. J. Anderson [C.]. |
| <i>r.</i> ♀ ad. sk. | Bhamo, Upper Burmah, Jan. 28, 1868. | Dr. J. Anderson [C.]. |

2. *Pericrocotus elegans*.

Phœnicornis elegans, *McClell. P. Z. S.* 1839, p. 156.

Pericrocotus elegans, *Gray, Gen. B.* i. p. 282; *id. Hand-l. B.* i. p. 335; *Hume, Str. F.* 1873, p. 309, 1875, p. 95, 1877, p. 194; *id. & Davidson, S. F.* 1878, p. 211.

Pericrocotus rutilus, *Gray, Hand-l. B.* i. p. 335.

Pericrocotus fraterculus, *Swinhoe, Ibis*, 1870, p. 244; *id. P. Z. S.* 1871, p. 379.

Very like *P. speciosus*, but distinguished by its smaller size and by having the outer webs of the centre tail-feathers red. Mr. Hume writes:—"Like *P. speciosus*, the first two primaries in the adult male and the first three in the female and young male alone want the bright patch on the outer web. No doubt there is a distinction in the tails, in that out of 26 adult males examined, in every one the outer webs of the tail-feathers were red, whereas only three out of 27 *P. speciosus* had any red on the outer webs of the middle tail-feathers. Again, taken as a body, the backs of the females are somewhat darker, and the red of the males somewhat more flammeous." Dimensions of wing given by Mr. Hume are as follows:—"In the males it varied from 3·6 to 3·77 inches, and in the females from 3·5 to 3·8."

Hab. Assam, Khasia hills, Kachar, Hill Tipperah, and throughout the Tenasserim hills to the extreme south at Malewoon (*Hume*); Siam, Cochin China, Hainan.

| | | |
|--------------------------------|----------------|-----------------------------|
| <i>a. ♂ ad., b. ♂ jun. sk.</i> | Bassein, Pegu. | W. T. Blandford, Esq. [P.]. |
| <i>c, d. ♂ ♀ ad. sk.</i> | Cochin China. | M. E. Pierre [C.]. |
| <i>e, f. ♂ ♀ ad. sk.</i> | Hainan. | R. Swinhoe, Esq. [C.]. |

3. *Pericrocotus andamanensis*.

Pericrocotus andamanensis, *Beavan & Tytler, Ibis*, 1867, p. 322; *Gray, Hand-l. B.* i. p. 335; *Walden, Ibis*, 1873, p. 309; *Hume, Str. F.* 1874, p. 208, 1877, p. 195. •

Pericrocotus speciosus, *Ball, Str. F.* 1873, p. 66.

Adult male (Andamans). Above glossy blue-black, the lower back, rump, and upper tail-coverts fiery vermillion; wing-coverts black, the external primary-coverts with a distinct broad margin of vermillion, the greater series vermillion with black bases; quills black, all but the three outer primaries barred with vermillion near the base, which is black, the three inner secondaries with a narrow spot of vermillion near the tip of the outer web; tail fiery vermillion, the feathers with black bases, increasing in extent towards the centre of the tail, the two centre feathers black; sides of face and throat glossy black like the head, the rest of the under surface fiery vermillion, including the under wing-coverts; thighs blackish; bill and feet black; iris dark brown. Total length 7·5 inches, culmen 0·65, wing 3·55, tail 3·6, tarsus 0·65.

Hab. Andaman Islands.

| | | |
|---------------------|----------------------------|--------------------------|
| <i>a. ♂ ad. sk.</i> | S. Andaman, Feb. 27, 1873 | R. B. Sharpe, Esq. [P.]. |
| | (<i>Wardlaw Ramsay</i>). | |

4. *Pericrocotus flammifer*.

Pericrocotus flammifer, *Hume, Stray Feathers*, 1875, p. 321, et 1877, pp. 175, 195; *id.* & *Davison, S. F.* 1878, p. 211.

"This species, like *P. andamanensis*, has no coloured patch on the first three primaries in the adult male, or in the first four in the female. In colour the female approaches *P. flammeus*; the outer webs of the central feathers appear to be always red. In colour the female is more like those of *P. speciosus* and *P. elegans*, with more yellow on the forehead, and of a much more orange-yellow below than the female *P. flammeus*. The wings of my specimens measure:—males from 3·47 to 3·5 inches, females from 3·35 to 3·42." (*Hume.*)

Obs. I identify a specimen in the collection with Mr. Hume's species, which seems to be a distinct one. Unfortunately our bird is in changing plumage and has lost its tail, so that it was not available for description.

Hab. Bankasoon, at the extreme south of the Tenasserim provinces.

a. ♂ imm. sk.

Tenasserim.

J. C. D. Packman, Esq. [P.].

5. *Pericrocotus xanthogaster*.

Muscicapa flammea, *Horsf. Tr. Linn. Soc.* xiii. p. 309 (*nec Forster*).

Lanius xanthogaster, *Raffl. t. c.* p. 309.

Pericrocotus xanthogaster, *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 142; *Gray, Hand-l. B.* i. p. 335; *Sharpe, Stray Feathers*, 1876, p. 208; *Tweedd. Ibis*, 1877, p. 315.

Pericrocotus ardens, *Bp. Consp.* i. p. 357 (*ex Boie, MS.*); *Gray, Hand-l. B.* i. p. 335; *Walden, Ibis*, 1872, p. 372, et 1873, p. 310; *Salvad. Ucc. Born.* p. 143, pl. 2; *Tweedd. Ibis*, 1877, p. 315.

Pericrocotus subardens, *Hume, Str. F.* 1877, p. 196.

Adult male. General colour glossy blue-black, the lower back, rump, and upper tail-coverts scarlet; tail entirely scarlet, the centre feathers black on the inner web, the others black at immediate base, slightly increasing in extent towards the centre of the tail, this black base almost imperceptible on the outer feathers; wings black, the inner greater coverts scarlet at tip, merged in the scarlet band which occupies the basal half of all but the four outer primaries, the four innermost secondaries with a large spot of scarlet towards the tip of the outer web; sides of face and throat blue-black like the head, the rest of the under surface of the body bright scarlet, including the under wing-coverts, the greater series being black with scarlet tips; thighs blackish. Total length 7 inches, culmen 0·6, wing 3·2, tail 2·95, tarsus 0·65.

Adult female. Above very dark grey, with a certain bluish gloss, the rump and upper tail-coverts olive-yellow; wings and tail as in the male, but yellow where they are scarlet in the latter, the tail showing a greater amount of black at the base of the feathers, and the yellow streak along the primaries situated further up the quills

than it is on the secondaries, and consequently showing a broader black base; forehead, feathers round the eye, and fore part of the face bright yellow, the lores and hinder part of the ear-coverts grey; rest of under surface bright yellow, thighs greyish. Total length 6·6 inches, culmen 0·55, wing 3·1, tail 3, tarsus 0·6.

Hab. Malayan peninsula; Sumatra; Borneo.

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|--|-------------------|---------------------------|
| <i>a.</i> ♀ ad. sk. | Singapore. | A. R. Wallace, Esq. [C.]. |
| <i>b.</i> ♂, <i>c.</i> ♀ ad. sk. | Kessang, Malacca. | M. Bouvier. |
| <i>e, f.</i> ♂ ♀ ad., <i>g.</i> juv. sk. | Sumatra. | A. R. Wallace, Esq. [C.]. |
| <i>h.</i> ♀ ad. sk. | Tagora, Sarawak. | Henry Everett, Esq. [C.]. |

6. *Pericrocotus flammeus*.

Muscicapa flammea, Forster, *Indische Zool.* p. 25; *Gm. S. N.* i. p. 942; *Temm. Pl. Col.* 263; *Vicill. N. Dict. d'Hist. Nat.* xxi. p. 483. *Flammeous Flycatcher*, Lath. *Gen. Syn.* ii. pt. 1, p. 338.

Pericrocotus flammeus, F. Boie, *Isis*, 1828, p. 321; *Gray, Gen. B.* i. p. 282; *Blyth, J. A. S. B.* xv. p. 309; *id. Cat. B. Mus. A.S.B.* p. 192; *Bp. Consp.* i. p. 357; *Horsf. & Moore, Cat. B. Mus. E. I. Co. i.* p. 142; *Gould, B. Asia*, pt. ix.; *Jerd. B. India*, i. p. 420; *Gray, Hand-l. B.* i. p. 334; *Holdswe. P. Z. S.* 1872, p. 438; *Hume, Nests and Eggs Ind. B.* p. 182; *Sharpe, Stray F.* 1876, p. 208; *Hume, Str. F.* 1877, p. 197.

Phoenicornis flammeus, Swains. *Zool. Ill.* 2nd ser. pl. 52; *Jerd. Ill. Orn.* pl. 11; *id. Madr. Journ.* x. p. 244.

Acis flammea, Lesson, *Traité*, p. 388.

Muscipeta flammea, Sykes, *P. Z. S.* 1832, p. 85.

Adult male. General colour above glossy blue-black; lower back, rump, and upper tail-coverts fiery orange-red; tail-feathers black, orange-red at tip, this colour increasing in extent towards the outermost, the centre feathers entirely black, rayed under certain lights; wing-coverts glossy black, the edge of the wing orange, the greater coverts broadly tipped with orange-red; quills black, with a broad band of orange-red near the base, separated by the blackish shafts; three inner secondaries with a spot of orange near the tip of the outer web; sides of the face and throat glossy black like the head; rest of under surface bright orange-red, with yellow bases to the feathers, the under wing-coverts bright yellow; thighs blackish; bill black; legs brownish black; iris dark brown. Total length 7·5 inches, culmen 0·6, wing 3·5, tail 3·75, tarsus 0·6.

Female. Head, neck, back, and wing-coverts ashy, forehead narrowly tinged with yellow; lower back, rump, and upper tail-coverts greenish yellow; quills and tail dusky black, the former with a yellow wing-spot, and the latter with the lateral tail-feathers yellow.

Hab. Hills of Southern India; Ceylon.

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|---------------------|-------------|--------------------------|
| <i>a.</i> ♂ ad. sk. | Travancore. | Capt. Biddulph [C.]. |
| <i>b.</i> ♂ ad. sk. | Madras. | |
| <i>c.</i> ♀ ad. sk. | Ceylon. | E. L. Layard, Esq. [C.]. |
| <i>d.</i> ♀ ad. sk. | Ceylon. | R. B. Sharpe, Esq. [P.]. |

7. *Pericrocotus exsul*.

Pericrocotus flammeus, Gray, *P. Z. S.* 1860, p. 354.

Pericrocotus exul, Wall. *P. Z. S.* 1863, p. 492; Gray, *Hand-l. B.* i. p. 335; Sharpe, *Str. F.* 1876, p. 209.

Adult male (type of species). Above black, with a slight greenish gloss, the sides of the face and throat uniform with the back; the rest of the under surface of the body bright orange, including the under wing-coverts, the innermost of the latter black; thighs blackish, with orange tips; lower back, rump, and upper tail-coverts bright orange, with a very rich tint on the upper tail-coverts; two centro tail-feathers entirely black, the rest bright orange with black bases, the latter extending diagonally across the feathers and becoming less towards the outer feathers; wings black, the edge orange like the under wing-coverts, the greater series tipped with orange and merging in the bases of the quills, which are bright orange, forming a subbasal band which crosses all but the four outer primaries, the second, third, and fourth being orange near the base of the inner web only; three of the inner secondaries with orange spots near the tips of the outer web; bill and feet black. Total length 7.3 inches, culmen 0.6, wing 3.3, tail 3.45, tarsus 0.6.

Adult female. Above grey, shaded with olive, darker on the crown of the head, the forehead yellowish; lower back, rump, and upper tail-coverts greenish yellow; wings and tail much as in adult, but the markings yellow instead of orange, all the quills terminally edged with yellow, broader on the inner secondaries; entire under surface of body bright golden yellow. Total length 7.5 inches, culmen 0.65, wing 3.15, tail 3.5, tarsus 0.6.

Obs. The male collected by Mr. Wallace in Java is much richer in colour than typical *P. exsul*, and is, to a certain extent, intermediate between it and *P. xanthogaster*.

Hab. Lombok; East Java.

| | | |
|-----------------|----------|---------------------------|
| a, b. ♂ ad. sk. | Lombok. | A. R. Wallace, Esq. [C.]. |
| c. ♀ ad. sk. | Lombok. | A. R. Wallace, Esq. [C.]. |
| d. ♂ ad. sk. | E. Java. | A. R. Wallace, Esq. [C.]. |

8. *Pericrocotus peregrinus*.

Parus peregrinus, *Linn. S. N.* i. p. 342; *Sparrm. Mus. Carls.* pls. 48, 49; *Sunder. Crit. on Sparrm.* p. 9.

Muscicapa flammea (pt.), *Forster, Indische Zool.* pl. 15. fig. 2.

Mésange de la côte de Malabar, *Sonn. Voy. Inde*, ii. p. 204, t. 114. fig. 2.

Malabar Titmouse, *Lath. Gen. Syn.* ii. pt. 2, p. 555 (ex *Sonn.*).

Parus malabaricus, *Gm. S. N.* i. p. 1012 (ex *Lath.*).

Muscicapa malabarica, *Gm. S. N.* i. p. 1015 (ex *Sparrm.*).

L'Oranor, *Levaill. Ois. d'Afr.* pl. 155. figs. 1, 2; *Sunder. Crit. on Levaill.* p. 42.

Muscicapa subflava, *Vicill. N. Dict.* xxi. p. 483.

Phœnicornis peregrina, *H. Boie, Isis*, 1827, p. 725; *F. Boie*, 1828, p. 320; *Gould, Cent. Himal. B.* pl. 9; *Jerd. Madr. Journ.* x. p. 244.

Muscipeta peregrina, *Sykes, P. Z. S.* 1832, p. 85.

8. PERICROCOTUS.

Muscicapa peregrinus, Tickell, *J. A. S. B.* ii. p. 574. ?
Pericrocotus peregrinus, Gray, *Gen. B.* i. p. 282; *Blyth, J. A. S. B.* xv. p. 310; *id. Cat. B. Mus. A. S. B.* p. 193; *Bp. Consp.* i. p. 356; *Horsf. & Moore, Cat. B. Mus. F.I. Co.* i. p. 140; *Gould, B. Asia*, pt. ix.; *Jerd. B. Ind.* i. p. 423; *Gray, Hand-l. B. i.* p. 335; *Holdsw. P. Z. S.* 1872, p. 438; *Hume, Str. F.* 1873, p. 177, 1874, p. 209, 1875, p. 96; *id. Nests &c. Ind. B.* p. 184; *Sadrad. Ucc. Born.* p. 145; *Sharpe, Str. F.* 1876, p. 209; *Hume, Str. F.* 1877, p. 179; *Twedd. Ibis*, 1877, p. 315; *Hume & Davison, Str. F.* 1878, p. 212.
Pericrocotus malabaricus, Hume, *Str. F.* 1877, p. 182.

Adult male. Upper surface of body ashy grey, the rump bright vermilion, as well as the upper tail-coverts: tail black, the four outer feathers orange towards the tip, decreasing in size towards the inner feathers; wing-coverts black, edged with dull grey, the greater series with a tiny orange tip; quills black, inclining to grey towards the tips, the bases to the inner primaries conspicuously orange-red, forming an alar speculum, two of these feathers with an additional streak of orange along the outer web; a very narrow frontal line, lores, sides of face, and throat ashy black; the breast vermilion, washed with orange and shading off paler on the flanks, the centre of the abdomen whitish, the under tail-coverts with a yellowish tinge: under wing coverts and edge of the wing yellow, some of the greater coverts with ashy black bases; thighs ashy black; bill and legs black; iris brown. Total length 6 inches, culmen 0.45, wing 2.55, tail 2.9, tarsus 0.65.

Adult female. Unlike the male: light grey above, the scapulars and wing-coverts uniform with the back; throat white, the rest of the under surface yellowish, deepening on the flanks and much brighter on the under wing-coverts; quills lighter and more brown than in the male, the primaries with narrow whitish edgings, the yellow wing-spot as in the male; rump vermilion; tail as in the male. Total length 6 inches, culmen 0.45, wing 2.75, tail 3.1, tarsus 0.6.

Obs. The examples from Southern India have blacker throats than those from Nepal, but specimens from the Central Provinces seem to be intermediate. The Javan birds have grey throats, but the Ceylonese specimens have this part black. Mr. Hume's remarks, where he proposes to separate the northern birds as *P. peregrinus* (L.) and the southern ones as *P. malabaricus* (Gm.), are to be consulted (*Str. F.* 1877, p. 182).

Hab. India and Ceylon, Burmese countries, Cochin China, Andaman Islands, Java.

a. *P. peregrinus*, L.

| | | |
|-------------------------|-----------------------|--------------------------------|
| a, b. ♂ ♀ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| c. ♀ ad. sk. | Lower Hills, Nepal. | B. H. Hodgson, Esq. [P.]. |
| d. ♀ ad. sk. | Thayetmyo, Pegu. | W. T. Blanford, Esq. [P.]. |
| e. ♂, f-h. ♀ ad. sk. | Saigon, Cochin China. | M. E. Pierre [P.]. |
| i. ♂ ad., k. ♂ juv. sk. | W. Java. | A. R. Wallace, Esq. [C.]. |
| l. Pull. sk. | Java. | Purchased. |
| m, n. ♂ ad. sk. | West Java (E. C. | F. Nicholson, Esq. [P.]. |
| | [Burton]. | |

b. *P. malabaricus*.

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| o. Var. sk. | S. India. | Major Elliot [P.]. |
| p. ♂ ad. st. | Madras. | Rev. H. H. Baber [P.]. |
| q, r. ♂ ad. sk. | Madras | Rev. H. H. Baber [P.]. |
| s-n. ♂ ad. sk. | Kamptee, (P. | Dr. B. Hinde [P.]. |
| w, x. ♂ ad. sk. | Ceylon. | E. L. Layard, Esq. [C.]. |

9. *Pericrocotus igneus*.

Pericrocotus igneus, *Blyth, J. A. S. B.* xv. p. 309; *id. Cat. B. Mus. A. S. B.* p. 193; *Bp. Consp.* i. p. 356; *Verr. Rev. et Mag. de Zool.* 1867, p. 169; *Gray, Hand-l. B.* i. p. 335; *Sicinh. P. Z. S.* 1871, p. 379; *Salvad. Ucc. Bern.* p. 144; *Sharpe, Str. F.* 1876, p. 209; *id. Tr. Linn. Soc. new ser.* i. p. 324; *Hume, Str. F.* 1877, p. 190; *id. & Davison, Str. F.* 1878, p. 211.

Pericrocotus minutus, *Strickl. Contr. Orn.* 1849, p. 94, pl. 31.

Pericrocotus flagrans, *Bp. Consp.* i. p. 357 (*ex Boie, MS.*); *Gray, Hand-l. B.* i. p. 335.

Adult male. Glossy blue-black, including the entire head and throat; lower back, rump, and upper tail-coverts fiery vermilion; two centre tail-feathers black, the next pair black, excepting an orange-red mark at the tip extending further up the outer web; all the other tail-feathers orange-red excepting the base of the inner web, which extends further and further on the feathers as they approach the centre of the tail; wings blue-black like the back, the greater series tipped with vermilion, and becoming merged in the broad vermilion subbasal band which traverses the wing, becoming less on the third primary, and disappearing on the first and second; under surface of body rich vermilion, the under wing-coverts yellow, with here and there a slight wash of vermilion; thighs blackish; bill and feet black. Total length 6 inches, culmen 0.55, wing 3, tail 3, tarsus 0.65.

Adult female. General colour above dull ashy grey, the lower back, rump, and upper tail-coverts fine vermilion; four median tail-feathers black, the remainder vermilion with black bases, gradually increasing in extent towards the inner ones; quills black, with a broad bar of orange near the base of the quills, extending along the outer web of some of the inner primaries; ear-coverts grey; lores, feathers round the eye, cheeks, and under surface of body bright yellow, inclining to orange on the flanks and under tail-coverts; thighs blackish; under wing-coverts and edge of wing yellow. Total length 5.5 inches, culmen 0.5, wing 2.75, tail 2.75, tarsus 0.6.

Hab. South of the Tenasserim provinces and Malacca, ranging northwards into Western China; Borneo; Palawan.

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|-----------------------|-------------------|---------------------------|
| a. ♂ ad. sk. | Singapore. | A. R. Wallace, Esq. [C.]. |
| b. ♀ ad. sk. | Malacca. | R. B. Sharpe, Esq. [P.]. |
| c. ♂ ad. sk. | Kessang, Malacca. | M. Bouvier. |
| d, e. ♀ ad. st. | Borneo. | Hugh Low, Esq. [C.]. |
| f, g. ♂ ad. sk. | N.W. Borneo. | Hugh Low, Esq. [C.]. |
| h. ♀ ad., i. juv. sk. | N.W. Borneo. | Hugh Low, Esq. [C.]. |
| k. ♂ ad. sk. | Kuching, Sarawak. | Henry Everett, Esq. [C.]. |
| l. ♂ ad., m. juv. sk. | Palawan. | Prof. J. B. Steere [C.]. |

10. *Pericrocotus brevirostris*.

Muscipeta brevirostris, Vigors, *P. Z. S.* 1831, p. 43.

Phoenicornis brevirostris, Gould, *Cent. Himal. B.* pl. 8; *Jerd. Madr. Journ.* x. p. 243.

Phoenicornis affinis ♂, McClelland, *P. Z. S.* 1839, p. 156.

Pericrocotus brevirostris, Gray, *Gen. B.* i. p. 282; Blyth, *J. A. S. B.* xi. p. 192, xv. p. 309; *id.* *Cat. B. Mus. A. S. B.* p. 193; *Bp. Consp.* i. p. 357; Horsf. & Moore, *Cat. B. Mus. E. I. Co.* i. p. 141; *Jerd. B. Ind.* i. p. 421; Gray, *Hand-l. B.* i. p. 334; Seinh. *P. Z. S.* 1871, p. 379; Henders. & Hume, *Lahore to Yark.* p. 184; Hume, *Nests &c. Ind. B.* p. 183; Sharpe, *Str. F.* 1876, p. 209; Hume, *Str. F.* 1877, p. 187; *id.* & Davison, *S. F.* 1878, p. 273.

Pericrocotus affinis, Gray, *Gen. B.* i. p. 282.

Adult male. Above glossy blue-black, the back, rump, and upper tail-coverts deep crimson; tail crimson, the bases of the feathers black, decreasing in extent towards the outermost, the two centre feathers entirely black, the next two black, the outer web crimson; wing-coverts glossy black, the greater coverts crimson, with black at the base and on the inner web of the interior ones; quills black, the primaries edged with white near the tips, the basal half of all the quills excepting the three long outer primaries (where it is represented by a spot on the inner web) crimson, the innermost secondary entirely black, the next two crimson for half their length and on outer web, leaving only a black patch towards tip of inner web; secondaries also tipped with whitish; sides of face and throat black, not so glossy as the head; rest of under surface crimson, including the under wing-coverts, the greater series of which are ashy black; thighs blackish; bill and legs black; irides dark brown. Total length 7·5 inches, culmen 0·45, wing 3·45, tail 4, tarsus 0·55.

Adult female. Above ashy grey, clearer on the head, the back slightly washed with olive; lower back, rump, and upper tail-coverts yellow; tail yellow, the basal half black, this black colour gradually encroaching towards the middle of the tail, the centre feathers being black, with a narrow outer border of yellow; wings glossy black, the small coverts greyer and washed with olive; the greater coverts tipped with yellow, and all the quills, except the inner secondaries, with a broad bar of the same colour near the base; forehead and lores yellowish white; chin, cheeks, and feathers below the eye whitish; cheeks and under surface of body yellow, washed with orange on the breast; under wing-coverts yellow. Total length 7·5 inches, wing 3·45, tail 4, tarsus 0·55.

Young males appear to resemble the old female, but are yellower on the forehead and side face.

Hab. Himalaya mountains, from Eastern Cashmere to Bhotan, coming in the cold season into the lower valleys and throughout the submontane tracts, the plains of the N.W. Provinces, &c.; eastwards from Shillong, Cachar, Sylhet, Tipperah, Chittagong, Aracan, &c. (Hume); Upper Burmah.

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| <i>a, b.</i> ♂, <i>c.</i> ♀ ad. sk. | Cashmere. | E. M. Langworthy, Esq. [P.] |
| <i>d, e.</i> ♂, <i>f, g.</i> ♀ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.] |
| <i>h.</i> Pull. sk. | Nepal. | B. H. Hodgson, Esq. [P.] |
| <i>i.</i> ♂ imm. sk. | Nepal. | B. H. Hodgson, Esq. [P.] |
| <i>k, l.</i> ♂ ad. st. | Nepal. | B. H. Hodgson, Esq. [P.] |
| <i>m-o.</i> ♂, <i>p.</i> ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.] |
| <i>q.</i> ♂ ad. sk. | Right bank of Tapeng river, Feb. 5, 1875. | Dr. J. Anderson [C.] |

11. *Pericrocotus neglectus*.

Pericrocotus neglectus, *Hume, Str. F.* 1877, p. 189; *id. & Davison, S. F.* 1878, p. 211.

"Clearly a miniature of *P. brevirostris*, and like it has the first four primaries in both sexes plain on the outer webs. The total length varies from 6·5 to 6·8; the tail from 3·0 to 3·25; the wings varied—males 3·25, 3·3; females 3·2, 3·37, 3·32. Seeing, however, that the eastern form of *P. brevirostris* is smaller than the western, I should not have separated these birds, though smaller than the smallest Sikhim and Shillong specimens, merely on account of difference of size. Nor would the proportionally much larger bill have satisfied me of their distinctness, nor even the fact that in both my males the black of the throat appears to descend further on the breast than in any one of forty-six males of *P. brevirostris*, as this might be due to some stretching of the skin in preparing it: but when with these differences is coupled a female of a wholly different type, with the upper surface of a much darker grey, and with the chin, throat, and entire lower surface of the rich bright hue of adult female *P. speciosus*, a hue not approached, as regards chin and throat at any rate, by any one of the twenty-seven female *P. brevirostris* now before me, I could not avoid recognizing what is clearly a distinct species." (*Hume*.)

Hab. Central Tenasserim hills.

12. *Pericrocotus miniatus*.

Muscicapa miniata, *Temm. Pl. Col.* 156.

Pericrocotus miniatus, *F. Boie, Isis*, 1826, p. 972; *Gray, Gen. B.* i. p. 282; *Bp. Consp.* i. p. 357; *Cab. Mus. Hein.* Th. i. p. 60; *Gray, Hand-l. B.* i. p. 336; *Sharpe, Str. F.* 1876, p. 210; *Hume, Str. F.* 1877, p. 192.

Acis miniata, *Lesson, Traité*, p. 388.

Phœnicornis miniata, *Jerd. Ill. Ind. Orn.* text to pl. xi.

Adult male. Black, with a slight blue gloss, the sides of the face and throat also black; rest of under surface of body scarlet vermillion, the thighs blackish, with pale rosy tips; the under wing-coverts rather paler vermillion than the breast, the lower series ashy black; wings black, the greater coverts entirely vermillion, except the innermost, which are black with red edgings; quills with a very broad vermillion band, increasing in extent along the primaries, this colour absent on the outer web of the first to the fourth of these quills and

confined to the inner web only; lower back, rump, and upper tail-coverts scarlet-~~vermilion~~; two centre tail-feathers black, slightly edged and spotted at the tip with vermilion, the rest vermilion, with black bases, increasing in extent on the inner web towards the middle of the tail; bill and feet black. Total length 7·5 inches, culmen 0·5, wing 3·35, tail 3·85, tarsus 0·55.

Adult female. Similar to the male, and having a black head; the back and least wing-coverts blackish, with dull crimson edgings to the feathers; greater coverts black, broadly tipped with vermilion; wings and tail otherwise as in the male; forehead, eyebrow, sides of face and entire under surface of body rosy vermilion; thigh-feathers blackish, with pale rosy tips. Total length 7·5 inches, culmen 0·5, wing 3·2, tail 3·8, tarsus 0·55.

Obs. *P. minutus* is extremely close to *P. brevirostris*, but may be told by the rosy colour on the thighs near the tarsal joint, and by the vermilion colour of the greater wing-coverts; in *P. brevirostris* these are black with crimson tips. The females are quite different.

Hab. Western Java.

a. ♂ ad. st.

Java.

Purchased.

b, c. ♂ ♀ ad. sk.

W. Java.

A. R. Wallace, Esq. [C.].

13. *Pericrocotus roseus*.

Muscicapa rosea, *Vieill. N. Dict. d'Hist. Nat.* xxi. p. 486.

Phoenicornis affinis, *McClell. P. Z. S.* 1839, p. 157 (♀).

Pericrocotus roseus, *Gray, Gen. B. i.* p. 282; *Blyth, J. A. S. B.* xv. p. 310; *id. Cat. B. Mus. A. S. B.* p. 193; *Bp. Cons.* i. p. 356; *Horsf. & Moore, Cat. B. Mus. P. I. Co. i.* p. 141; *Gould, B. Asia*, part ix.; *Jerd. B. Ind.* i. p. 422; *Gray, Hand-l. B. i.* p. 335; *Hume, Nests &c. Ind. B.* p. 184; *Sharpe, Str. F.* 1876, p. 210; *Hume, Str. F.* 1877, p. 184; *id. & Davison, S. F.* 1878, p. 212.

Phoenicornis roseus, *Jerd. Ill. Ind. Orn.* text to pl. xi.

Adult male. General colour above ashy brown, rather greyer on the head, and inclining to pale rosy on the lower back, rump, and upper tail-coverts, the latter with bright rose-coloured tips; tail-feathers pale vermilion, with black bases, extending gradually more and more towards the centre of the tail, the two middle feathers blackish, the next two blackish, with vermilion running along the outer web; wings blackish, the scapulars and wing-coverts greyish, the greater coverts tipped with vermilion and merging in the bright vermilion basal bands on the quills, which traverse the wing obliquely, extending further up the primaries than on the secondaries, the innermost of which have rose-coloured spots near the tips of their outer webs; a narrow frontal line, plumes round the eye, and cheeks whitish; under surface of body pale rosy, much deeper on the under wing-coverts, the chin and centre of abdomen whitish; thighs dusky at base, white at tip; "bill dusky; legs brown; iris brown" (*Jerdon*). Total length 6·7 inches, culmen 0·6, wing 3·4, tail 3·6, tarsus 0·6.

Adult female. General colour above pale ashy brown, slightly inclining to olive on the lower back and rump; wings and tail much

as in the male, but yellow where the latter is vermilion, the inner secondaries light brown with broad whitish edgings; a narrow frontal line running above the eye white; lores ashy brown; rest of the sides of the face whitish, inclining to ashy brown on the upper margin of the ear-coverts; rest of under surface buffy white, inclining to yellowish buff on the breast, deeper on the flanks and under wing-coverts. Total length 7·5 inches, wing 3·5, tail 3·5, tarsus 0·35.

Hab. Himalaya mountains; Burmese countries.

| | | |
|------------------------|-----------------|--------------------------------|
| <i>a.</i> ♂ ad. sk. | Nepal. | B. H. Hodgson, Esq. |
| <i>b.</i> ♀ ad. sk. | Behar. | B. H. Hodgson, Esq. |
| <i>c.</i> Ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>d, e.</i> ♀ ad. sk. | Tenasserim. | J. C. D. Packman, Esq. [P.]. |
| <i>f.</i> ♂ ad. sk. | Tenasserim. | J. C. D. Packman, Esq. [C.]. |
| <i>g.</i> ♂ ad. sk. | Pegu. | W. T. Blanford, Esq. [P.]. |

14. *Pericrocotus solaris*.

Pericrocotus solaris, *Blyth, J. A. S. B.* xv. p. 310; *id. Cat. B. Mus. A. S. B.* p. 193; *Gray, Gen. B.* iii. App. p. 13; *Gould, B. Asia*, part i.; *Bp. Consp.* i. p. 356; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 393; *Jerd. B. Ind.* i. p. 422; *Gray, Hand-l. B.* i. p. 335; *Sharpe, Str. F.* 1876, p. 210; *Hume, Str. F.* 1877, p. 186; *id. & Davison, S. F.* 1878, p. 212.

Adult male. General colour above leaden black, the lower back, rump, and upper tail-coverts scarlet; cheeks and sides of face ashy grey; the chin light grey, the rest of the throat orange; remainder of the under surface orange-scarlet, the thigh-feathers greyish black; under wing-coverts orange, rather inclining to scarlet near the edge of the wing; wing-coverts above blackish, with a small spot of orange near the tip of the outer primary-coverts; the greater series black, tipped with scarlet and merging in the vermilion band which traverses the bases of the quills, running for some distance up the outer web of the primaries, the first three of which have no orange on the outer web; centre tail-feathers black, edged with vermilion near the tip of the outer web, the rest vermilion with black bases, increasing gradually on the inner web towards the centre of the tail; bill black; legs brownish black; iris brown. Total length 7 inches, culmen 0·55, wing 3·4, tail 4·1, tarsus 0·6.

Adult female. Dark grey above, the lower back, rump, and upper tail-coverts greenish yellow; wing-coverts blackish, with greenish-yellow margins, the greater series with narrow tips of yellow; quills as in the male, but the basal band yellow instead of vermilion, the primaries also edged with whitish towards the tip; tail as in the male, but yellow instead of vermilion; sides of face light grey; throat greyish white, shading into yellow on the breast, all the rest of the under surface being bright yellow; thighs brown externally, yellow internally. Total length 7 inches, culmen 0·45, wing 3·35, tail 4, tarsus 0·55.

Hab. Sikhim and Nepal, Khasia hills, hills of Tenasserim.

| | | |
|-----------------|--------|---------------------------|
| a. ♂ ad. st. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| b, c. ♂ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| d-h. ♀ au. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |

15. *Pericrocotus griseigularis*.

Pericrocotus griseigularis, Gould, *P. Z. S.* 1862, p. 282; *id. B. Asia*, part xvi.; *Swinh. Ibis*, 1863, p. 263, et 1866, p. 399; *Gray, Hand-l. B. i.* p. 335; *Swinh. P. Z. S.* 1871, p. 379; *Sharpe, Str. F.* 1876, p. 211.

Adult male. Above ashy black, with a slight gloss; the forehead, sides of the face, and sides of neck ashy grey; lower back, rump, and upper tail-coverts fiery vermilion; tail-feathers also vermilion, with oblique black bases increasing in extent towards the centre of the tail, the two median feathers of which are black, as also the next two, but these have vermilion on the outer webs and at the tips; wings black, the greater series tipped with vermilion and merging in the band of the same colour which crosses the basal part of the secondaries and extends for some distance up the outer web of the inner primaries; throat greyish white, with a slight yellowish tinge; rest of the under surface scarlet, inclining to yellow when the plumes are disturbed; thighs ashy black; under wing-coverts orange washed with vermilion, the inner ones blackish with orange tips. Total length 6·7 inches, culmen 0·5, wing 3·25, tail 3·7, tarsus 0·6.

Adult female. Above grey, the sides of face and of the neck much lighter, the lower back tinged with olive and shading off into the yellow of the lower back, rump, and upper tail-coverts; wings and tail as in the male, but yellow where he is red; throat white, slightly washed yellowish; rest of under surface bright yellow, the thighs greyish. Total length 7·3 inches, wing 3·2, tail 3·4, tarsus 0·6.

Hab. Formosa.

a, b. ♂ ♀ ad. sk. N. Formosa. R. Swinhoe, Esq. [C.].

16. *Pericrocotus cinereus**.

Pericrocotus cinereus, Lafresn. *Rev. Zool.* viii. p. 94; *Bp. Consp.* i. p. 357; *Schrenck, Reis. Amurl.* p. 381; *Radde, Reis. Sibir.* ii. p. 273; Gould, *B. Asia*, pt. ix.; *Gray, Hand-l. B. i.* p. 335, no. 5050; *Swinhoe, P. Z. S.* 1871, p. 378; *id. Ibis*, 1875, p. 116; *Dybowski. J. f. O.* 1875, p. 249; *Tacz. Bull. Zool. Soc. France*, i. p. 165; *Sharpe, Str. F.* 1876, p. 211; *Hume, Str. F.* 1877, pp. 174, 175; *Sharpe, Ibis*, 1877, p. 19; *David & Oustal. Ois. Chine*, p. 137; *Hume & Davison, S. F.* 1878, p. 212.

Pericrocotus modestus, *Strickl. P. Z. S.* 1846, p. 102; *Bp. Consp.* i. p. 357 (*ex Boie, MS. in Mus. Lugd.*); *Gray, Hand-l. B. i.* p. 335, no. 5053.

Ceblepyris luctuosus, *De Filippi, Mus. Mediol.* p. 31; *Salvad. Atti R. Accad. Torin.* 1868, p. 271.

* *PERICROCOTUS IMMODESTUS*.

Pericrocotus immodestus, *Hume, Str. Feathers*, 1877, p. 176.

Hab. Tenasserim.

A species briefly described by Mr. Hume as being near *P. cantonensis*.

Adult male. General colour above grey, the forehead whitish as also the sides of the face, the ear-coverts washed with grey on the upper margin; entire under surface of body dull white, the sides of the body grey, as also the thighs, which have whitish edgings; wing-coverts blackish, washed with grey, the greater white at tip with a subterminal black bar; quills blackish externally, shaded with grey, especially the secondaries, which have broad white edgings preceded by a black subterminal bar, all the quills with a white subbasal bar of white extending obliquely across the wing, and larger on the inner than on the outer web; tail black, washed with grey, all the feathers with oblique white tips, excepting on the four centre ones. Total length 7 inches, culmen 0.65, wing 3.7, tail 3.65, tarsus 0.55.

Adult female. Differs from the male in being entirely grey above, without any black on the head and nape, only the base of the forehead whitish. Total length 7.4 inches, culmen 0.55, wing 3.75, tail 3.7, tarsus 0.55.

Hab. South Amoorland and the mouths of the Ussuri river, through China to the Malayan peninsula, Sumatra, and Borneo.

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|-------------------------|---------------------------|---------------------------------|
| a. Ad. sk. | China [?]. | J. Gould, Esq. |
| b. ♂ ad. sk. | Amoy, China, Oct. 4 1859. | R. Swinhoe, Esq. [C.]. |
| c, d. ♂ ♀ ad. sk. | Malacca. | Capt. Stackhouse Pinwill, [P.]. |
| e, f. [♀] ad. sk. | N.W. Borneo. | Hugh Low, Esq. [C.]. |
| g, h. [♂], i. ♀ ad. sk. | Labuan. | Governor Ussher [C.]. |
| k. ♂ ad. sk. | Bitulu, W. Borneo. | Alfred Everett, Esq. [C.]. |

17. *Pericrocotus cantonensis*.

Pericrocotus cantonensis, *Swinh. Ibis*, 1861, p. 42, 1865, p. 107, 1870, p. 244; *id. P. Z. S.* 1863, p. 284, 1871, p. 378; *Gray, Hand-l. B. i.* p. 335; *Gould, B. Asia*, part xxvi.; *Sharpe, Str. F.* 1876, p. 211; *Hume, Str. F.* 1877, p. 177; *David & Oustalet, Ois. Chine*, p. 107.

Pericrocotus sordidus, *Swinh. P. Z. S.* 1863, p. 378; *Gray, Hand-l. B. i.* p. 335.

Adult female (Canton, 1860, *R. Swinhoe*; type of species). General colour above grey, the head like the back; fore part of crown white, the vertex somewhat obscured by brown edges to the feathers; scapulars shaded with ashy brown; rump and upper tail-coverts ashy or rather clay brown, contrasting with the back; wing-coverts dark brown, edged with lighter brown; primary-coverts uniform dark brown; quills dark brown, the innermost secondaries with paler ashy brown margins tinged with yellow near the tip; primaries with an oblique mark of yellow, very broad on the inner web and narrow on the outer one, the secondaries yellow at the base, forming a conspicuous alar speculum; tail-feathers dark brown, tipped with yellow or yellowish white on all but the two centre feathers, these yellow tips becoming much broader on the outer tail-feathers; in front of the eye a three-cornered spot of black; round the eye a

narrow ring of whitish feathers; sides of face white, extending onto the sides of the neck so far as almost to form a half-collar; ear-coverts light grey on the upper margin; throat white; rest of under surface light ashy brown, whiter on the centre of the breast and abdomen as well as the under tail-coverts; under wing-coverts light yellow as also the axillaries, some of the latter white, washed with yellow; quills dark brown below, with yellow bases to the feathers. Total length 6.4 inches, culmen 0.55, wing 3.4, tail 3.65, tarsus 0.55. (*Mus. H. Seebohm.*)

Adult male (Fungtoo, Szechuen, May 5, 1869; *R. Swinhoe*). Similar to the female but darker grey, especially on the hinder crown and ear-coverts; tail-feathers tipped with white; alar speculum brown instead of yellow, the bases to the secondaries and the markings across the primaries being brown, pale and indistinct. Total length 6.2 inches, culmen 0.55, wing 3.45, tail 3.3, tarsus 0.6. (*Mus. H. Seebohm.*)

Hab. China.

18. *Pericrocotus erythropygius*.

Phoenicornis erythropygia, *Jerd. Ill. Ind. Orn.* text to pl. xi.

Pericrocotus erythropygius, *Gray, Gen. B.* i. p. 282; *Blyth, J. A. S. B.* xv. p. 310; *Strickl. Contr. Orn.* 1848, p. 23, pl. 3; *Blyth, Cat. B. Mus. A. S. B.* p. 193; *Bp. Consp.* i. p. 356; *Gould, B. Asia*, part i.; *Jerd. B. Ind.* i. p. 424; *Gray, Hand-l. B.* i. p. 335; *Adam, Str. F.* 1876, p. 375; *Sharpe, Str. F.* 1876, p. 211; *Hume, Str. F.* 1877, p. 177.

Adult male. Above glossy blue-black, the rump deep orange; upper tail-coverts black; four centre tail-feathers black, the rest black at base, white at tip, this increasing gradually towards the outer feathers and occupying half of the latter; wing-coverts glossy black, the greater series pure white; quills black, browner at tip, the primaries externally edged with whitish brown, the inner secondaries externally edged with white, increasing on some more than others, one of them white except for a black shaft-line, these white plumes forming with the greater coverts a longitudinal bar down the wing; sides of face and throat black, not so glossy as the head; breast pale rosy vermillion, the rest of the under surface pure white; thighs black; under wing-coverts white, the greater ones with black bases; bill and legs black; iris brownish yellow. Total length 6 inches, culmen 0.45, wing 2.65, tail 3.2, tarsus 0.5.

Adult female. The parts that are black in the male are smoky ash-colour (except the tail, which is deep black); the forehead whitish; rump and under surface white, tinged with ashy on the breast. (*Jerdon.*)

Hab. The moderately dry, fairly cultivated plains of Northern and Central India (*Hume*).

a. ♂ ad. sk.

India.

Purchased.

19. *Pericrocotus albifrons*.

Pericrocotus albifrons, *Jerdon, Ibis*, 1862, p. 96; *Gray, Hand-l. B. i.* p. 335; *Blanford, Ibis*, 1872, p. 468; *Hume, Str. F.* 1875, p. 96; *Sharpe, Str. F.* 1876, p. 212; *Hume, Str. F.* 1877, p. 178; *id. & Davison, Str. F.* 1878, p. 212.

Adult male. Above glossy blue-black, the rump orange-vermilion where the white bases do not show through; upper tail-feathers again blue-black; tail black, the outer webs of the middle feathers edged with white, all the other feathers tipped with white, increasing in extent towards the outer feathers, the white predominating on the outer ones; wings black, the edge of the wing white, the outermost of the primary-coverts also edged with white; greater coverts black, edged with white, the centre ones entirely white; quills blackish, more ashy brown at tip, the innermost secondaries white all round, with an irregular blackish centre; forehead, a broad eye-brow, and sides of the face and neck pure white; through the eye to the ear-coverts a line of bluish-black feathers; entire under surface of body pure white, the chest pale orange-vermilion, thighs blackish externally; under wing-coverts white; bill and legs black, claws dark horny; eyelids grey; iris dark brown. Total length 6 inches, culmen 0.45, wing 2.55, tail 2.25, tarsus 0.55.

Adult female. Above ashy brown; the forehead, cheeks, and underparts white; wing as in the male, but brown instead of black; middle tail-feathers blackish, the rest terminally white, this increasing in extent towards the outer feathers; rump white with a slight tinge of vermilion here and there. Total length 6 inches, wing 2.6, tail 3.3, tarsus 0.6.

Hab. Independent Burmah and Upper Pegu.

a, b. ♂ ♀ ad. sk. Upper Burmah.

Dr. Jerdon [P.]
(Types of species.)

9. *LALAGE**.

Type.

Lalage, Boie, Isis, 1826, p. 973 *L. terat.*

Erucivora, Swains. Faun. Bor.-Amer. Birds, p. 453

(1831)..... *L. terat.*

* Boie, in naming this genus in 1826, gave no description, but indicated the type as *Turdus orientalis*, Gm., which has been recognized as such by all subsequent ornithologists. In 1858 (that is to say, thirty-two years later) he states (*J. f. O.* 1858, p. 359) that this is all a mistake, and that he meant *Turdus mindanensis* to be the type of *Lalage*, having confounded the two species together. Boie must be held to his original type, as the name of *Lalage* is in common use everywhere, and its being transferred to *Copsychus* would lead to irretrievable confusion: no one but the proposer is answerable for the original blunder, which could not be suspected by any subsequent writers.

The following species have been placed in the genus *Lalage*:—

1. *LALAGE UROPYGIALIS*, *Bp. C. R.* xxxviii. p. 541.

"Major; superciliis nullis; subtus et latè in uropygio albo-rufa."

Hab. —.

Perhaps *Symmorphus leucopygius*.

- Oxynotus*, *Swains. tom. cit.* p. 483 (1831) *L. rufiventer*.
Acanthinotus, *Swains. tom. cit.* p. 483 (1831) *L. rufiventer*.
Schetba, *Lesson, Traité*, p. 374 (1831) *L. rufiventer*.
Pseudolalage, *Blyth, J. A. S. B.* xxx. p. 97 (1862) . *L. melanoleuca*.



Leg of *Lalage pacifica*.

From the islands of Mauritius and Réunion, through the peninsula of India and Ceylon, to the Malayan peninsula and entire Malayan archipelago; throughout the Moluccas, Australia, and Oceania.

Key to the Species.

- a. Under tail-coverts white.
 - a'. Throat slaty black *sykesi*, p. 89.
 - b'. Throat pure white, plain *melanothorax*, p. 91.
 - a''. Under surface pure white, without a pectoral band.
 - a'''. Upper surface particoloured, the rump lighter than the head; scapulars uniform with the back.
 - a⁴. Back glossy greenish black.
 - a⁵. With no white eyebrow.
 - a⁶. With the rump grey.
 - a⁷. Least and median wing-coverts greenish black like the mantle *melanoleuca*, p. 91.
 - b⁷. Least and median wing-coverts white, contrasting with the mantle *tricolor*, p. 92.
 - b⁸. With the rump white; least wing-coverts greenish black like the back *atrovirens*, p. 93.
 - b⁵. With a distinct eyebrow.
 - c⁶. Eyebrow narrow; least wing-coverts white like the median

2. *LALAGE CHALCOCEPHALA* (*Temm.*); *Gray, Hand-l. B.* i. p. 338, no. 5112.

Hab. Java.

Not a Cuckoo-Shrike, but a Bulbul, as correctly determined by Temminck.

3. *LALAGE LEUCOPHLEA*.

Sylvia leucophæa, *Vieill. N. Dict.* xi. p. 189.

Described as grey above, and consequently not to be referred to *L. terat* or *L. timoriensis*, as has been done by some authors.

4. *LALAGE NYCTHEMERA* (*Temm.*); *Hartl. J. f. O.* 1865, p. 165.

The type is from Tinor, in the Leiden Museum, and is *Oreicola melanoleuca* (V.) with the under mandible broken off.

- series; only two outer tail-feathers tipped with white . . . *timoriensis*, p. 94.
- dⁿ*. Eyebrow broad; least wing-coverts greenish black like the back; four outer tail-feathers tipped with white.
- c²*. Smaller: rump light grey, the upper tail-coverts of the same colour; upper surface glossy greenish black . . . *terat*, p. 95.
- d⁷*. Larger: rump darker grey; upper tail-coverts with a blackish subterminal bar; upper surface dull glossy black . . . *pacifica*, p. 97.
- b¹*. Back grey; rump and upper tail-coverts greyish white . . . *leucopygialis*, p. 98.
- b^{'''}*. Upper surface uniform, the rump not lighter than the back.
- c¹*. No white eyebrow; sides of face and ear-coverts blue-black like the rest of the upper surface; tail scarcely tipped with white . . . *leucoptera*, p. 99.
- d¹*. A broad white eyebrow; sides of face and ear-coverts white; upper surface dull blackish, the scapulars spotted with white; tail-feathers broadly tipped with white . . . *whitmei*, 100.
- b^{''}*. Under surface white, with remains of dusky bars on the breast.
- c^{'''}*. Upper surface grey, the rump lighter; wing-coverts and quills edged with white . . . *terat* ♀, p. 96.
- d^{'''}*. Upper surface brown entirely; wing-coverts and quills edged with light brown . . . *tricolor* ♀, p. 92.
- c^{''}*. Under surface white, with a pectoral band of purplish black; entire back purplish black; upper tail-coverts pure white . . . *banksiana*, p. 100.
- c¹*. Throat uniform white or greyish; upper surface uniform grey; abdomen and under tail-coverts white.
- d^{''}*. Larger: throat white; wing-coverts edged with slaty grey . . . *rufiventer* ♂, p. 101.
- e^{''}*. Smaller: throat grey; wing-coverts black, indistinctly margined with greenish black . . . *newtoni* ♂, p. 102.
- d¹*. Throat white or greyish white, barred with grey like the rest of the under surface.
- f¹*. Back rusty brown, the rump uniform with the back; tail-feathers broadly tipped with white; no white edgings to the wing-coverts . . . *newtoni* ♀, p. 102.
- g^{''}*. Back ashy grey, the rump lighter than the back, the feathers edged with hoary grey; tail very minutely tipped with white:

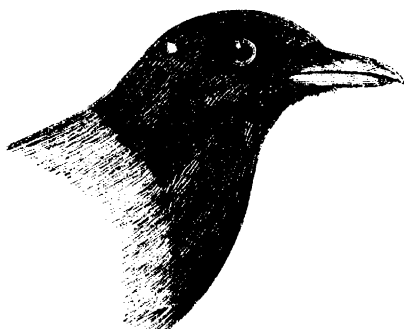
- eyebrow hoary grey; under wing-coverts white barred with grey like the breast. *sykesi* ♀, p. 89.
- h''*. Back black, with a dull gloss; rump white, barred with blackish; outer tail-feathers only tipped with white; no eyebrow; under wing-coverts pure white. *atrovirens* ♀, p. 94.
- b*. Under tail-coverts white barred with grey like the rest of the under surface. *culminata* ♀, p. 104.
- c*. Under tail-coverts dark slaty grey, uniform.
- e'*. Wings black, contrasting with the grey back, the wing-coverts and quills not edged with light grey; quills not lighter-edged below
- f'*. Wings grey, the coverts and quills edged with the same grey as the back, inclining to hoary white on the greater coverts and quills; the quills below with a broad white edge or wing-lining. *monacha* ♂, p. 105.
- d*. Under tail-coverts buff or deep rufous.
- g'*. Tips to outer tail-feathers white.
- i''*. Under surface barred with dusky grey on a fulvous or greyish white-ground [p. 103.
leucomelæna ♀ et juv.,
- k''*. Under surface uniform.
- e'''*. Breast greyish white; vent and under tail-coverts fawn-rufous [p. 103.
leucomelæna ♂ ad.,
- f'''*. Entire under surface orange-chestnut except the chin, which is white like the sides of the face *aurea*, p. 103.
- h'*. Tips to outer tail-feathers fulvous or reddish; upper surface brown.
- l''*. Under surface deep fulvous barred with dusky black; rump lighter than the back, and barred with black. *monacha* ♀, p. 105.
- m''*. Under surface uniform rufous; rump uniform rufous, contrasting with the brown back.
- g'''*. Chin and base of cheeks white; ear-coverts dull brown streaked with fulvous; under the eye a white streak. *rufiventer* ♀, p. 102.
- h'''*. Chin and base of cheeks rufous; ear-coverts rufous-brown streaked with chestnut *insperata*, p. 103.

1. *Lalage sykesi*.

- Ceblepyris canus*, *Sykes*, *P. Z. S.* 1832, p. 87 (*nec Gm.*).
Ceblepyris fimbriatus, *Jerd. Madr. Journ.* x. p. 242 (*nec Temm.*).
Lalage sykesii, *Strickl. Ann. N. H.* xiii. p. 36; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 175.
Campephaga sykesii, *Gray, Gen. B.* i. p. 283; *Blyth, J. A. S. B.* xv. p. 307; *id. Cat. B. Mus. A. S. B.* p. 191; *id. Ibis*, 1866, p. 368; *Gray, Hand-l. B.* i. p. 338, no. 5106.
Volvocivora sykesii, *Bp. Consp.* i. p. 356; *Jerd. B. Ind.* i. p. 414; *Hartl. J. f. O.* 1865, p. 162; *Adam, Str. F.* 1873, p. 376; *Ball, S. F.* 1874, p. 291; *Butler, t. c.* p. 464, 1876, p. 37, 1877, p. 220; *Blyth & Wald. B. Burm.* p. 123; *Fairbank, S. F.* 1876, p. 256, 1877, p. 400.
Erucivora sykesii, *Pelz. Reis. Novara, Vög.* p. 82.

Adult male. General colour above light grey, some of the rump-feathers and upper tail-coverts with hoary white margins; head all round, nape, hind neck, sides of the latter, and fore neck glossy black; breast and sides of the body light grey; entire abdomen and under tail-coverts pure white; thighs slate-colour; scapulars and least wing-coverts grey like the back; rest of the wing-coverts glossy black, margined with grey; primary-coverts entirely black; quills black, the primaries obsoletely edged with white, broader on the secondaries; two centre tail-feathers grey, the rest black, tipped with white, the white tips becoming broader towards the outer feather; under wing-coverts white, the axillaries and small coverts near the lower bend of the wing shaded with grey; quills ashy blackish below, white for more than half of the inner web; "bill and feet black; iris dark red-brown" (*Jerdon*). Total length 7·2 inches, culmen 0·6, wing 3·75, tail 3, tarsus 0·75.

Adult female. General colour above grey, lighter on the lower back and rump, the upper tail-coverts with dusky cross bars; wings browner than the back, the feathers washed with grey, the greater and median coverts and quills edged with white, the primary-coverts not margined; tail much as in the male, the outer feathers having the terminal spot mottled with brown cross markings; under surface of body greyish white, narrowly barred with dusky blackish cross lines, disappearing towards the abdomen and under tail-coverts, which are pure white; thighs dull white, barred with dusky; lores greyish white; feathers in front of eye dusky; ear-coverts dull greyish white, with distinct white shaft-streaks and mottled with dusky cross bars; cheeks barred like the under surface; under wing-coverts resembling the breast, the cross lines on the greater series rather more zigzag and longitudinal. Total length 7·2 inches, culmen 0·6, wing 3·6, tail 3, tarsus 0·8.



Head of *Lalage sykesi*, to show extent of black on the throat.

Hab. Indian peninsula and Ceylon.

a. ♀ ad. sk.

India.

W. Wilson Saunders, Esq.

[P.].

b. ♂ ad. sk.

Madras.

Rev. H. H. Baber [P.].

c. ♀ ad. sk.

Madras.

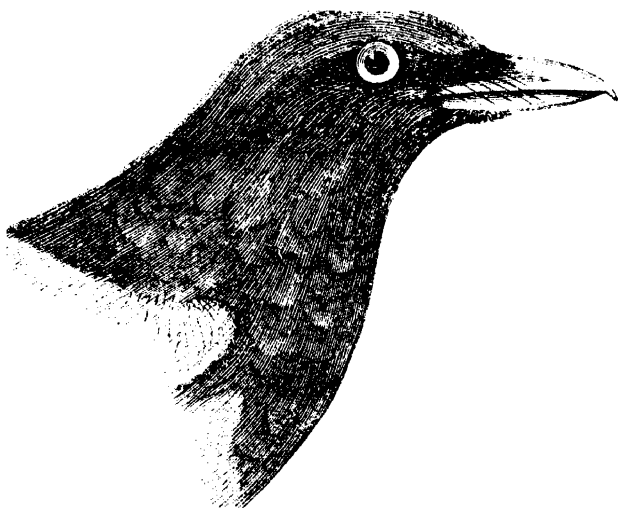
Dr. Jerdon [P.].

9. LALAGE.

| | | |
|---------------------------------------|-------------------------------|------------------------------|
| <i>d.</i> ♂ ad. sk. | Travancore. | Capt. Biddulph [C.]. |
| <i>e, f.</i> ♂ ♀ ad. sk. | Mysore. | Capt. C. H. T. Marshall [P.] |
| <i>g.</i> ♀ ad. sk. | Vingorla, Jan. 1869. | Colonel Sturt [P.]. |
| <i>h.</i> ♂ ad. sk. | Mahabaleshwur Hills. | Colonel Sturt [P.]. |
| <i>i, j.</i> ♂ ♀ ad. sk. | Newara Eliya, Ceylon. | Mr. E. Boate [C.]. |
| <i>k.</i> ♂ ad. sk. | Ceylon. | Hugh Cuming, Esq. [C.]. |
| <i>l.</i> ♀ ad., <i>m.</i> ♂ juv. sk. | Central Provinces, Ceylon. | A. Whyte, Esq. [C.]. |

Subsp. *a.* *Lalage melanothorax.*

Similar to *L. sylkesi*, but with a very much larger bill; the whole head and neck and the throat and chest glossy steel-black, extending much further down than in *L. sylkesi*. Total length 7·5 inches, culmen 0·8, wing 4·2, tail 3·2, tarsus 0·8.



Head of *Lalage melanothorax*, to show extent of black on the throat.

Hab. Madras.

| | | |
|---------------------|---------|------------------------|
| <i>a.</i> ♀ ad. st. | Madras. | Rev. H. H. Baber [P.]. |
|---------------------|---------|------------------------|

2. *Lalage melanoleuca.*

Pseudolalage melanoleuca, *Blyth, J. A. S. B.* xxx. p. 97; *Walden, Tr. Z. S.* ix. p. 178, pl. 29, fig. 2; *Sharpe, Tr. Linn. Soc.* new series, vol. i. p. 351.

Pseudolalage melanictera, *Sclater, Ibis*, 1862, p. 78 (*lapsu cal.*).

Lalage melanoleuca, *Hartl. J. f. O.* 1865, p. 163; *Von Martens, J. f. O.* 1866, p. 12.

Campephaga melanictera, *Gray, Hand-l. B.* i. p. 339, no. 5129.

Adult. General colour above glossy greenish black, including the scapulars and all the wing-coverts except the innermost of the median series, which are pure white, the innermost of the greater

series white externally, greenish black on the inner web; quills greenish black, the secondaries externally white and forming a longitudinal patch along with the white wing-coverts mentioned above; lower back, rump, and upper tail-coverts light grey, with whitish edgings to the feathers; tail-feathers greenish black, very narrowly tipped with white, the two external ones having a distinct spot of white at the tip; lores greenish black like the crown; sides of face, sides of neck, and entire under surface of body pure white, including the under wing-coverts, axillaries, and the quill-lining along the basal half of the inner web. Total length 7·6 inches, culmen 0·75, wing 4·4, tail 3·2, tarsus 0·95.

Hub. Philippine Islands.

a. ♂ ad. sk. Philippine Islands.

Hugh Cuming, Esq. [C.].

3. *Lalage tricolor.*

Ceblepyris tricolor, *Sicains. Zool. Journ.* i. p. 467; *Walden, Tr. Z. S.* ix. p. 177, note.

Ceblepyris humeralis, *Gould, P. Z. S.* 1837, p. 143.

Campephaga humeralis, *Gould, B. Austr.* fol. ii. p. 283; *Gray, Gen. B. i.* p. 283; *Reichenb. Vög. Neuholl.* p. 231; *Gould, Handb. B. Austr.* i. p. 204; *Gray, Hand-l. B. i.* p. 339, no. 5116.

Lalage humeralis, *Cab. Mus. Hein.* Th. i. p. 60; *Bp. Consp. i.* p. 355; *Hartl. J. f. O.* 1865, p. 355; *Sharpe, Journ. Linn. Soc.* xiii. p. 499; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. pt. 2, p. 181.

Erucivora humeralis, *Pelz. Reis. Norara, Vög.* p. 82.

Adult male. General colour above glossy greenish black; least and median wing-coverts pure white, as also the greater coverts, the latter black on the inner webs, the whole forming a large shoulder-patch; bastard wing, primary-coverts, and quills black, the secondaries with white margins to the outer web; lower back, rump, and upper tail-coverts light grey, the latter with whitish tips; tail-feathers black, the two outermost tipped with white; lores black like the crown; no white eyebrow; ear-coverts, cheeks, and under surface of body pure white, including the under wing-coverts, axillaries, and the base of the inner web of the quills; "bill and feet black; iris nearly black" (*Gould*). Total length 6·7 inches, culmen 0·6, wing 4·9, tail 3·9, tarsus 0·8.

Adult female. Brown above, the rump-feathers and upper tail-coverts narrowly edged with buffy white; wing-coverts and secondaries broadly edged with sandy buff; tail brown, with narrow whitish tips to the feathers, the two outermost rather broadly tipped with dull white; an indistinct rufescent line from the base of the bill above the eye, succeeded by a dusky brown streak through the eye; ear-coverts dull brown, with white longitudinal centres to the feathers; cheeks and throat whitish; rest of under surface of body yellowish buff, with indications of obsolete dusky cross markings on the breast and sides of the body; under wing-coverts, axillaries, and quill-lining buffy white.

Young male. Earthy brown, the sandy buff margins to the wing-coverts and secondaries very broad; lower back and rump greyer than the rest of the back, with obsolete cross lines of dusky grey;

under surface of body buffy white, with cross markings of dusky brown on the breast and flanks.

Nestling. General colour above earthy brown, all the feathers margined with whity brown, before which is a subterminal line of blackish; greater wing-coverts and quills edged with fulvous; lower back and rump rather lighter than the rest of the back; tail-feathers brown, margined with sandy brown, the penultimate feathers tipped with buffy white, broader on the outermost feather, which has the outer web also of this colour; sides of face and under surface of body dull white, plentifully spotted with mesial streaks of brown on the feathers, these streaks disappearing on the abdomen.

Hab. Australia and South-eastern New Guinea.

| | | |
|--------------------------------------|---------------------------------------|-------------------------|
| <i>a.</i> ♂ ad. st. | Australia. | J. Gould, Esq. [C.]. |
| <i>b, c.</i> ♂ imm. sk. | Australia. | Sir T. Mitchell [P.]. |
| <i>d.</i> ♀ ad. st. | Yarrundi river. | J. Gould, Esq. [C.]. |
| <i>e, f.</i> ♂ ad. sk. | South Australia. | Sir G. Grey [P.]. |
| <i>g.</i> ♂ ad. sk. | Burr Range, interior of S. Australia. | Capt. Sturt [P.]. |
| <i>h.</i> Pull., <i>i.</i> ♂ ad. st. | West Australia. | J. Gould, Esq. [C.]. |
| <i>k, l.</i> Juv. sk. | N.W. Australia. | J. R. Elsey, Esq. [P.]. |
| <i>m.</i> ♂ juv. sk. | Lat. 17°, long. 134°, July 1856. | J. R. Elsey, Esq. [P.]. |
| <i>n.</i> Juv. sk. | Port Essington. | Capt. Chambers [P.]. |
| <i>o.</i> ♂ ad. sk. | Port Moresby, S.E. New Guinea. | O. C. Stone, Esq. [C.]. |

4. *Lalage atrovirens.*

Campephaga (Lalage) *atrovirens*, *Gray*, *P. Z. S.* 1861, pp. 430, 433.

Lalage atrovirens, *Hartl. J. f. O.* 1865, p. 164.

Campephaga atrovirens, *Finsch, Neu-Guinea*, p. 172; *Gray, Hand-l. B. i.* p. 339, no. 5121; *Giebel, Orn. Thes. i.* p. 554.

Adult male (type of species). General colour above glossy greenish black, the head with a faint shade of steel-blue; across the rump a broad band of white; feathers of the lower rump rigid, white at base and tipped with white, before which is a subterminal spot of greenish black; upper tail-coverts black with greenish edges, some of the lower ones margined with white; tail-feathers black, edged with greenish, the outermost feather tipped with a white spot; least wing-coverts greenish black like the back, the median series black broadly tipped with white, forming a transverse bar; the greater series black tipped with white, increasing in extent towards the innermost, which are broadly margined with white; primary-coverts entirely black; quills black, the secondaries rather broadly edged with white externally; sides of face and sides of neck white, the upper edge of the ear-coverts greenish black like the crown; lower edge of eyelid white like the adjoining cheeks, the rest greenish black; entire under surface of body pure white, including the under wing-coverts, some of the outermost of which have black bases; quills dusky, blackish below, with broad white lining to the inner

web. Total length 7·8 inches, culmen 0·6, wing 3·85, tail 3·3, tarsus 0·8.

Adult female. Similar to the male, but rather duller above, more ashy but with a greenish gloss; below white, narrowly barred across with wavy cross lines of blackish; under wing- and tail-coverts white, as well as the quill-lining; cheeks white, the ear-coverts dusky white with clearer white shaft-lines. Total length 7·6 inches, culmen 0·55, wing 3·85, tail 3·3, tarsus 0·85.

Hab. Mysol, Salwatti, New Guinea.

| | | |
|-------------------|-----------|---------------------------|
| a, b. ♂ ♀ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.]. |
| c. ♂ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.]. |
| d. ♀ ad. sk. | Salwatti. | A. R. Wallace, Esq. [C.]. |

5. *Lalage timoriensis*.

Ceblepyris timoriensis, S. Müll. *Nat. Verschied. Land- u. Volkenk.* p. 190.

Campephaga timoriensis, Gray, *Gen. B.* i. p. 283; *id. Hand-l. B.* i. p. 339.

Lalage timoriensis, Bp. *Consp.* i. p. 355; *Hartl. J. f. O.* 1865, p. 165; *Försch. Neu-Guinea*, p. 172; *Salvad. Cce. Born.* p. 147.

Lalage leucophaea, Wall. *P. Z. S.* 1863, p. 485 (*ucc. P.*).

Adult male. General colour above glossy greenish black, the lower back, rump, and upper tail-coverts light grey, the latter with narrow whitish tips; lesser and median wing-coverts pure white, forming a large shoulder-patch, the greater series black, narrowly edged with white, the inner ones white on the outer web, black on the inner; quills black, the secondaries narrowly bordered with white on the outer web; tail black, with very narrow white tips to some of the feathers, the two outermost plainly tipped with white; a narrow line of white running from the base of the nostrils above the eye; upper and lower edge of the eyelid white; through the eye a black streak from the base of the bill to the nape; cheeks, ear-coverts, sides of neck, and entire under surface of body pure white, including the under wing-coverts, axillaries, and the inner lining of the quills. Total length 7 inches, culmen 0·55, wing 3·75, tail 3·1, tarsus 0·8.

Adult female. Different from the male; brown with darker centres to the feathers of the crown; lower back, rump, and upper tail-coverts grey, with whitish edges to the feathers; wing-coverts and quills dark brown, all edged with sandy rufous; tail-feathers brown, the feathers edged and tipped with sandy buff, the two outer ones tipped with white, extending up the outer web of the external feather; a narrow buffy white, eyebrow from the nostril over the eye, succeeded by a streak of dusky brown through the eye; sides of face and under surface of body buffy white, with obscure dusky bars on the breast and sides of the body; thighs greyish; under wing-coverts and quill-lining buffy white. Total length 7·3 inches, wing 3·45, tail 3·05, tarsus 0·75.

Young. Brown like the old female, but not grey on the lower

back, which is only a little lighter brown than the rest of the back; under surface of body white, with nearly obsolete shaft-streaks of brown; tips to all the tail-feathers very distinct.

Hab. Timor group of islands.

| | | |
|---------------------------------------|----------------|---------------------------|
| <i>a.</i> ♀ juv. sk. | Timor. | A. R. Wallace, Esq. [C.]. |
| <i>b, c.</i> ♂ ad. sk. | E. Timor. | A. R. Wallace, Esq. [C.]. |
| <i>d, e.</i> Juv. sk. | E. Timor. | A. R. Wallace, Esq. [C.]. |
| <i>f.</i> ♂ ad. sk. | Timor Coupong. | A. R. Wallace, Esq. [C.]. |
| <i>g.</i> ♂ ad., <i>h.</i> ♂ juv. sk. | Lambock. | A. R. Wallace, Esq. [C.]. |
| <i>i.</i> ♀ juv. sk. | Bali. | A. R. Wallace, Esq. [C.]. |

6. *Lalage terat**.

Le Merle des Indes, *Briss. Orn.* ii. p. 248, pl. 31. fig. 3.

Le Terat-Boulan, *Month. Hist. Nat. des Ois.* iii. p. 397.

Le Merle des Indes orientales, *D'Aubent. Pl. Enl.* iv. pl. 40. fig. 2.

Ash-rumped Thrush, *Lath. Gen. Syn.* ii. p. 74.

Turdus terat, *Bodd. Tabl. Pl. Enl.* pl. 17.

Turdus orientalis, *Gm. S. N.* i. p. 821.

Sylvia orientalis, *Bonn. & Vieill. Enc. Méth.* ii. p. 487.

Ceblepyris striga, *Horsf. Tr. Linn. Soc.* xiii. p. 145.

Turdus striga, *Raffl. t. c.* p. 311.

Lalage orientalis, *Boie, Isis*, 1826, p. 973; *Blyth, Cat. B. Mus. A. S. B.* p. 192; *Bp. Consp.* i. p. 355; *Cab. Mus. Hein.* Th. i. p. 60; *Horsf.*

S. Moore, Cat. B. Mus. E. I. Co. i. p. 175; *Moore, P. Z. S.* 1854, p. 273; *Bernst. J. f. O.* 1859, p. 274; *Harth. J. f. O.* 1865, p. 166.

Erucivora orientalis, *Sicains, Faun. Bor.-Amer., Birds*, p. 483; *Pelz. Reis. Nicaragua, Vog.* p. 81.

Ceblepyris orientalis, *S. Müller, Nat. Versch. Land- en Volkenk.* p. 190; *Less. Echo du Monde Sav.* p. 232.

Pycnonotus humeraloides, *Less. Descr. Mamm. et Ois.* p. 305.

Campephaga terat, *Gray, Hand-l. B.* i. p. 339.

Lalage terat, *Hume, Str. F.* 1873, p. 454, 1874, p. 202; *Salvad. Ucc. Born.* p. 145; *Sharpe, P. Z. S.* 1875, p. 107.

Lalage dominica, *Walden, Tr. Z. S.* ix. p. 178; *Tweeddale, Ibis*, 1877 p. 313; *Sharpe, Tr. Linn. Soc. New ser.* i. p. 324; *Tweedd. P. Z. S.* 1877, pp. 545, 759, 827, 1878, pp. 108, 285, 342; *id. Ib's*, 1877, p. 313.

Adult male. General colour above glossy greenish black, the scapulars and least wing-coverts like the back; median series pure white, as also the greater coverts, the latter black with the outer

* The oldest name for this bird is, no doubt, *Turdus dominicus* of P. L. S. Müller (*S. N. Anhang*, p. 145; *Cass. Pr. Philad. Acad.* 1864, p. 251), a gentleman who brought out an edition of Linnaeus's 'Systema Naturæ' and included species published since 1766. The date at which he wrote (1776) enabled him to name several of D'Aubenton's 'Planches Enluminées,' to which he was the first to give titles. It is a great question whether this author is entitled to recognition at the hands of ornithologists, as he was apparently colour-blind—witness his bestowing the name of *cinidis* upon the rufous-and-grey *Terpsiphone* of South Africa, and *castanea* upon the totally black *Philepitta jala* of Madagascar! In the case of *Lalage terat* he has committed himself greatly, as he has not noticed the numbers of the figures on D'Aubenton's plate, and has named the upper bird ("Merle des Indes orientales") *dominica*, instead of the under figure, which represents a bird from San Domingo; to this he has given the name of *indicus*.

web white and also a portion of the edge of the inner web ; primary-coverts and quills black, the secondaries externally bordered with white, forming a longitudinal bar down the wing ; lower back, rump, and upper tail-coverts clear grey, the latter with silvery grey edges ; tail-feathers black, narrowly edged with steel-green, tipped with white, these tips much broader on the outer feathers, the two centre ones shaded with grey towards the base of their inner webs ; nasal plumes, lores, and a broad eyebrow white ; a spot in front of the eye and a streak behind the latter, above the ear-coverts to the sides of the nape, black ; sides of face, ear-coverts, and entire under surface of body pure white, with a slight greyish tint on the breast and flanks ; under wing-coverts and inner lining of quills white for more than half the inner web : "bill black ; legs and feet black or plumbeous ; soles yellowish horny ; iris brown" (*Hume*). Total length 6.1 inches, culmen 0.65, wing 3.35, tail 2.85, tarsus 0.8.

Adult female. Differs from the male in being entirely grey above, lighter on the rump and upper tail-coverts, the latter with whitish edges, the head and mantle with blackish streaks down the centre of the feathers ; below white, the breast narrowly barred with obscure greyish cross lines ; two centre tail-feathers grey at base and for the greater part of their inner webs ; "bill black ; legs blackish grey ; iris dark brown" (*A. Everett*). Total length 6.3 inches, wing 3.6, tail 2.8, tarsus 0.8.

Dr. Hartlaub describes the female as similar to the male, but Count Salvadori ('Ucc. Born.' p. 147) identifies this sex as having a grey back. I have described Labuan birds sent without labels by Mr. Low and Governor Ussher, but evidently male and female. Mr. Everett has settled the question by sending correctly dissected specimens from Luzon which agree with the Labuan birds described by me. Salvadori hints at the probability of the Bornean bird being specifically distinct from that of the rest of the Malayan archipelago, but I find Philippine examples not differing from those of Labuan. Lord Tweeddale says that birds from Southern Borneo have a longer wing and larger bill than those of Java.

Young. Like the old females, but the grey back more or less suffused with brown, the feathers in some parts edged with whity brown ; below the dusky cross lines are broader, and the chest is washed with sandy buff ; the greater wing-coverts have zigzag cross bars of blackish.

Count Salvadori describes the young as being "like the females, but varied with white above and *longitudinally* streaked and spotted with dusky below." This must be a younger stage than I have yet seen.

Hab. Nicobar Islands, Malayan peninsula, Java, Sumatra, Borneo, Labuan, Philippine Islands.

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|---------------------------|---|---------------------------|
| a. ♀ ad. sk. | Nancowry Island, Nicobars, Dec. 1873 (<i>Copt. Wimberley</i>). | R. B. Sharpe, Esq. [P.]. |
| b. ♂ ad. sk. | Malacca. | A. R. Wallace, Esq. [C.]. |
| c, d. ♂ ad., e. ♀ ad. sk. | W. Java (<i>E. C. Buxton</i>). | F. Nicholson, Esq. [P.]. |

| | | |
|-------------------------|---|----------------------------|
| f. ♀ ad. sk. | Labuan (<i>H. Low</i>). | R. B. Sharpe, Esq. [P.]. |
| g. ♂ ad. sk. | Labuan. | Hugh Low, Esq. [C.]. |
| h. ♂ ad., i. ♂ jūn. sk. | Labuan. | Governor Ussher [C.]. |
| k. Juv. sk. | Philippine Islands. | Hugh Cumming, Esq. [C.]. |
| l. ♂ imm. sk. | Dumalon, Mindanao. | Prof. J. B. Steere [C.]. |
| m. ♂ ad. sk. | Cebu, April 1877. | Alfred Everett, Esq. [C.]. |
| n. ♀ ad. sk. | Monte Alban, Luzon, Feb. 1877. | Alfred Everett, Esq. [C.]. |
| o. ♀ ad. sk. | San Mateo, Luzon, Feb. 1877 (<i>A. Everett</i>). | R. B. Sharpe, Esq. [P.]. |
| p. ♂ ad. st. | Luzon. | E. Wilson, Esq. [P.]. |

7. *Lalage pacifica*.

Pacific Thrush, *Lath. Gen. Syn.* iii. p. 38; *id. Gen. Hist.* v. p. 117.

Turdus pacificus, *Gm. S. N.* i. p. 813 (*ex Lath.*).

Colluricincla maculosa, *Peale, U. S. Expl. Exp.* 1848, p. 81, pl. 23. fig. 1.

Lalage terat (*nec Bodd.*), *Cass. U. S. Expl. Exp.* p. 143; *Finsch & Hartl. P. Z. S.* 1869, p. 546; *id. Faun. Centralpolyn.* p. 80; *Whitnce, Ibis*, 1875, p. 440; *Layard, P. Z. S.* 1875, p. 433, 1876, pp. 494, 502; *id. Ibis*, 1876, p. 144.

Campephaga pacifica, *Gray, Cat. B. Trop. Isl. Pacific Ocean*, p. 23; *id. Hand-l. B.* i. p. 339.

Campephaga maculosa, *Gray, l. c.* p. 23; *id. Hand-l. B.* i. p. 339.

Lalage pacifica, *Hartl. J. f. O.* 1865, p. 169.

Lalage maculosa, *Finsch, P. Z. S.* 1877, pp. 724, 735, 773.

Adult male. General colour above greenish black, the sides of the neck white, so as to form almost a collar round the hind neck; rump and upper tail-coverts grey, with buffy white margins to the feathers, the upper tail-coverts having a subterminal shade of black; scapulars and least wing-coverts black like the back, the median series white, the outermost with black mesial patches; greater series black with white tips, the inner ones broadly white externally, forming with the median coverts a white wing-patch; primary-coverts entirely black; quills black, the primaries narrowly edged with white, the secondaries more broadly; tail-feathers black, narrowly tipped with white, becoming broader towards the outer feathers, the two outermost having a large white apical spot; lores white, continued into a broad superciliary streak, succeeded by a second line of greenish black drawn from the base of the bill through the eye and including the upper edge of the ear-coverts; cheeks, ear-coverts, and entire under surface, including the under wing-coverts and the base of the inner web of the quills, white; thighs white, with black bases; "upper mandible bluish black, lower pale yellow with dark tip; legs bluish; iris dark brown" (*E. A. Layard*); "iris black" (*Brenchley*). Total length 7 inches, culmen 0·7, wing 3·7, tail 2·7, tarsus 1.

Adult female. Browner than the male, the head only greenish black and contrasting with the back, the feathers of the upper surface being edged with lighter brown; rump and upper tail-coverts ashy, the feathers edged with buffy white, with a subterminal bar of black, imparting a barred appearance to this part; tail brown,

tipped with white, only the two outer tail-feathers having white apical spots of large size; white margins to the quills and wing-coverts narrow and not forming a patch as in the male; rest of plumage as in the latter, but the sides of the face, sides of neck and of body below barred with zigzag cross lines of dusky black; "iris dark brown" (*Brenchley*). Total length 6·5 inches, wing 3·6, tail 2·7, tarsus 0·85.

The female described is from M'Bau Island, Fiji (*Brenchley*), as I have not seen a dissected specimen from Tongatabu. The Fiji and Friendly Islands birds are, however, specifically identical, though specimens from the former group appear to be smaller, the wing not exceeding, as a rule, 3·45 inches in length.

Young. Differs from the adult in having the feathers of the upper surface edged with rusty colour or hoary white; the wing-coverts and quills margined with rusty, the white wing-coverts with large black centres; sides of face, breast, and flanks mottled with zigzag cross markings of blackish.

Two young birds from Samoa are ashy brown above, white below, with remains of wavy arrow-head lines of dull brown, and have yellow bills.

Hab. Oceania: Friendly, Fiji, and Navigator groups of islands.

| | | |
|----------------------|---|--------------------------|
| a. ♂ ad., b. juv. sk | Tongatabu. | Sir E. Home [P.]. |
| c. ♂ ad. sk. | Tongatabu, July 1865. | J. Brenchley, Esq. [P.]. |
| d. ♀ ad. sk. | M'Bau Island, Fiji, August 1865. | J. Brenchley, Esq. [P.]. |
| e. ♂ imm. sk. | Viti. | Purchased. |
| f. ♂ ad. sk. | Viti, Feb. 7, 1877. | Dr. Smith [C.]. |
| g. ♂ ad. sk. | Viti, April 16, 1877. | Dr. Smith [C.]. |
| h. i. ♂ ♀ ad. sk. | Bua, Fiji. | E. A. Layard, Esq. [C.]. |
| k. ♀ juv. sk. | Kandavu, Sept. 1876. | Dr. Kubary [C.]. |
| l. ♀ juv. sk. | Interior of Viti Levu, May 1878 (<i>Dr. Klein-</i> <i>schmidt</i>). | Godeffroy Museum. |
| m. Ad., n. jun. sk. | Samoa. | J. Gould, Esq. |
| o. Ad., p. imm. sk. | Upolu, Samoa. | Rev. S. J. Whitmee [C.]. |
| q. Juv. sk. | Upolu, Samoa. | Rev. S. J. Whitmee [C.]. |
| r. Ad., s. juv. sk. | Upolu, Samoa. | M. Krause [C.]. |
| t. Ad. sk. | Upolu, Samoa. | Dr. Kubary [C.]. |

8. *Lalage leucopygialis*.

Campephaga leucopygialis, Gray, *Hand-l. B.* i. p. 339, no. 5125 (*descr. nullā*).

Lalage leucopygialis, *Walden, Tr. Z. S.* viii. p. 69, no. 88, pl. 8. fig. 2; *Salvad. Ann. Mus. Civic. Genov.* vii. p. 658.

Adult male. General colour above grey, darker on the head, glossed with greenish, the back narrowly streaked with dusky shaft-lines; scapulars grey; lower back, rump, and upper tail-coverts lighter grey, shading off into white on the latter; least wing-coverts glossy blue-black; greater and median series blackish, with broad white margins to the feathers; primary-coverts black; quills black, the primaries narrowly tipped, the secondaries margined externally with

white; tail-feathers blackish, the two outer feathers tipped with white, broader on the outermost; from the base of the bill a broad white eyebrow extending to above the ear-coverts and slightly washed with grey; in front of the eye a spot of dusky blackish, as also a line behind the eye; feathers round the eye white, except where the eyelid joins the black line through the eye; cheeks and ear-coverts white, the latter dusky on their upper margin; entire under surface of body pure white, with tiny specks of zigzag cross lines on the fore neck and throat; thighs grey with white edgings; quills dusky blackish below, greyish white along the inner webs. Total length 7·6 inches, culmen 0·65, wing 3·75, tail 3·15, tarsus 0·8.

Young female. Earthy brown above, the head with mesial shaft-streaks of blackish; least wing-coverts brown, the median series rusty buff with black mesial bases; greater coverts and quills brown edged with rusty, broader on the secondaries; lower back and rump dull grey with whitish margins, the long upper tail-coverts rusty brown shaded with grey and tipped with whitish; tail-feathers brown, all tipped with white, broader on the outermost; eyebrow rusty buff; ear-coverts dusky, with white centres to the feathers; cheeks and under surface of body buffy white, with dusky bars on the flanks.

Two nearly adult males are grey like the adult, with rusty tips to the feathers of the head and back.

Hab. Island of Celebes; Sula Islands.

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|----------------------|-----------|---------------------------|
| <i>a.</i> ♂ ad. sk. | Menado. | A. R. Wallace, Esq. [C.]. |
| <i>b, c.</i> ♂ imm. | Makassar. | A. R. Wallace, Esq. [C.]. |
| <i>d.</i> ♀ juv. sk. | Makassar. | A. R. Wallace, Esq. [C.]. |

9. *Lalage leucoptera*.

Campephaga leucoptera, *Schl. N. T. D.* iii. p. 45.

Adult male (Kordo, Misori, May 20, 1875, *Beccari*). General colour above glossy blue-black, including the lores, sides of face, and ear-coverts; cheeks and entire under surface of body pure white, including the under wing-coverts and axillaries; thighs black; least wing-coverts like the back; median and greater series pure white, the outermost greater coverts black tipped broadly with white, the innermost more or less black on the inner web; bastard plumes, primary-coverts, and quills black, the inner secondaries externally white, forming a large white wing-patch continuous with the white coverts; tail black, with a narrow edging of blue-black to the feathers, the two outermost of which have a small white tip. Total length 7·5 inches, culmen 0·55, wing 4·2, tail 3·0, tarsus 0·9. (*Mus. Civic. Genov.*)

Adult female (Kordo, May 11, 1875, *Beccari*). Brown where the male is blue-black, with a more distinct gloss on the head, the feathers of the rump and upper tail-coverts with grey edges; the white under surface and wing-markings as in the male; ear-coverts brown, with narrow whitish shaft-lines on the lower parts. Total

length 7·2 inches, culmen 0·55, wing 3·95, tail 3, tarsus 0·8.
(*Mus. Civic. Genov.*)

Hab. Island of Misori in the Bay of Geelvink, New Guinea.

a, b. ♂ ♀ ad. sk. Kordo, Misori, April 1873 Dresden Museum.
(*Dr. A. B. Meyer.*)

10. *Lalage whitmeei*.

Lalage whitmeei, *Sharpe, Mitth. k. zool. Mus. Dresden*, Heft iii.

Adult male. General colour above glossy black, with only the faintest shade of green; sides of the neck white, encroaching behind so as to form a half-collar; lesser wing-coverts margining the edge of the wing black, the rest of the lesser coverts as well as the median series pure white, the former with black mesial streaks forming a conspicuous shoulder-patch; greater coverts black, with broad white endings to the outer webs; primary-coverts black, narrowly tipped with white; quills black, the primaries narrowly margined with white, the secondaries more broadly; some of the outer scapulars with white terminal spots; long upper tail-coverts with a shade of grey; tail-feathers black, all tipped with white, increasing in extent towards the outermost, which are very broadly tipped with white; a broad white eyebrow from the base of the nostrils to the sides of the nape, succeeded by a broad streak through the eye from the base of the bill to the nape; ear-coverts, sides of face, and entire under surface of body pure white, including the under wing-coverts and quills at base of the inner web; thighs white, with blackish bases. Total length 6·4 inches, culmen 0·65, wing 3·95, tail 2·8, tarsus 1·05.

Female (not quite adult). Black like the male, but with a few remains of greyish edges to the rump-feathers and upper tail-coverts; scapulars externally spotted with white at the tip; sides of the body below with dusky zigzag cross lines. Total length 6·8 inches, wing 4·05, tail 3·1, tarsus 1·05.

Obs. This species appears to be quite distinct from *L. pacifica*, from which it differs in its black rump. The female bird is not quite mature, and shows that in the young plumage it resembles the young of *L. pacifica*. Another difference is seen in the white spots on the scapulars, and also in the very broad white tips to the tail-feathers.

Hab. Savage Island.

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|---------------|----------------|------------------------|
| a. ♂ ad. sk. | Savage Island. | J. Brenchley, Esq. [P. |
| b. ♀ jun. sk. | Savage Island. | J. Brenchley, Esq. [P. |
| c. Ad. sk. | Savage Island. | Rev. S. J. Whitmee [|
| d. Juv. sk. | | Purchased. |

11. *Lalage banksiana*.

Lalage banksiana, *Gray, Ann. & Mag. N. H.* 1870, p. 329; *id. in Brenchley's Cruise of the Curaçoa, App.* p. 372, pl. 10; *Layard, Ibis*, 1878, p. 273.

Adult male (type of species). General colour above purplish black, the feathers long and silky and white at the base; upper tail-coverts

pure white; tail-feathers white, blackish at the base and along the edge of the outer web, the two centre feathers black with a white tip; least wing-coverts purplish black, the inner ones white with black edges; median wing-coverts pure white; greater series also white, the outer ones black, with a large diamond-shaped spot of white at the tip; primary-coverts black, white at base of outer web; quills black, the secondaries edged and tipped with white, the innermost entirely pure white; lores, feathers round the eye, an eyebrow joining the sides of the crown, and sides of nape and neck white, the latter so extended as to leave only a broad nuchal band from the head to the mantle; entire under surface of body creamy white, including the under wing- and tail-coverts and the quills at the base of the inner web; across the fore neck a band of purplish black; bill and legs black; "iris black" (*Brenchley*), "deep brown" (*E. L. Layard*). Total length 5·6 inches, culmen 0·6, wing 3·15, tail 2·55, tarsus 0·8.

Female. Like the male, but having the white ends to the tail-feathers less extended, and having some of the wing-coverts and secondaries edged with fulvous (probably remains of an immature plumage). Total length 5·3 inches, wing 3, tail 2·5, tarsus 0·9.

Hab. Banks's Islands, and Vate in the New Hebrides group.

a, b. ♂ ♀ ad. sk. Vanua Lava, Banks's Group, J. Brenchley, Esq. [P.].
August 1865. (Types of species.)

12. *Lalage rufiventer*.

Lanius ferrugineus, *Freyinet*, *Voy. Uranic*, p. 96, pl. 18 (*nec Gm.*).

Schœtha ferruginea, *Lesson*, *Traité*, p. 374.

Oxynotus rufiventer, *Swains. Faun. Bor.-Am.*, *Birds*, p. 483.

Campephaga capensis, *Blyth*, *Cat. B. Mus. A. S. B.* p. 191.

Oxynotus ferrugineus, *Hartl. Faun. Madag.* 1862, p. 51, note; *Schl. P. Z. S.* 1866, p. 423; *Schl. & Poll. Faun. Madag.* p. 82.

Oxynotus typicus, *Hartl. J. f. O.* 1865, p. 160; *Pollen, Ibis*, 1866, p. 278, pl. 7; *Hartl. Vög. Madag.* 1877, p. 182.

Campephaga rufiventer, *Gray, Hand-l. B. i.* p. 339, no. 5131.

Adult male. General colour above slaty grey, darker on the head, the feathers of which have dark shaft-streaks; least wing-coverts like the back, the greater and median series blackish, edged with slaty grey; primary-coverts black; quills blackish, externally edged with slaty grey, shading off into white on the primaries and outer secondaries, which have also a terminal notch of white; two centre tail-feathers blackish edged with grey, the rest of the feathers black tipped with white, increasing in extent towards the outermost; lores dull whitish, extending over the front of the eye and forming an indistinct eyebrow; feathers in front of the eye black; feathers below the eye, cheeks, and ear-coverts light grey, the latter with white shaft-streaks, the upper edge of the ear-coverts dark grey like the head; rest of under surface of body light grey, the throat and centre of the abdomen and under tail-coverts white; thighs dark grey; under wing-coverts and axillaries white; quills brown below, the inner web very broadly white for nearly half its extent; "bill

black; feet bluish; iris hazel." Total length 8 inches, culmen 0·75, wing 4·15, tail 3·4, tarsus 1·05.

Adult female. Different from the male. General colour dull rufous-brown, the rump and upper tail-coverts brighter and more brick-red; least wing-coverts like the back, the rest of the wing-coverts and the quills blackish brown, edged with dull reddish brown, the primaries with whitish brown near the tips; centre tail-feathers brown, washed with lighter brown; the rest of the tail-feathers blackish, tipped with pale reddish like the centre ones; head duller and more olivaceous brown than the back, contrasting with it, the feathers mesially streaked with blackish; lores ashy whitish; feathers in front of and behind the eye dusky brown; above the eye a faint indication of a rufous eyebrow; ear-coverts light rufous, mottled with brown streaks and whitish shaft-lines; the plumes below the eye whitish; under surface of body chestnut, the chin and fore part of cheeks white, forming a moustache; under wing-coverts light chestnut; quills ashy brown below, edged with light rufous on the inner web. Total length 8·8 inches, culmen 0·9, wing 4·25, tail 3·5, tarsus 1·2.

Hab. Mauritius.

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| <i>a.</i> ♂ ad. sk. | Mauritius, Nov. 1860. | E. Newton, Esq. [P]. |
| <i>b, c.</i> ♂ ♀ ad. sk. | Mauritius (<i>Beursher</i>). | R. B. Sharpe, Esq. [P]. |

13. *Lalage newtoni*.

Oxynotus ferrugineus, *Pollen*, *Bull. Soc. d'Acclim. Réunion*, iii. p. 7, pl. 1 (1865, *nee Freycin.*): *Ferr. in Vins. Note sur l'île Réunion*, p. 162.

Oxynotus newtoni, *Pollen*, *Ibis*, 1866, p. 278, pl. 8; *Schl. P. Z. S.* 1866, p. 423; *Schl. & Pollen, Fauna. Madag.* p. 84; *Hartl. Vög. Madag.* 1877, p. 84.

Campephaga newtoni, *Gray, Hand-l. B.* i. p. 340, no. 5132.

Adult male. General colour above ashy grey, the crown streaked with dusky shaft-lines to the feathers, the rump and upper tail-coverts a little lighter grey than the back; wings black, contrasting with the back, the least coverts edged with dull grey, the median and greater series with obscure and almost obsolete margins of grey; quills narrowly margined with hoary white, the inner secondaries slightly tipped with the same; tail-feathers black, tipped with white, which increases in extent towards the outermost, which have very broad white ends; a spot in front of the eye dusky blackish; eyelid hoary grey; ear-coverts and sides of face dull ashy grey, spotted with white below the eye; chin and upper throat greyish white; rest of under surface light ashy grey, white on the centre of the body and under tail-coverts; thighs light ashy; under wing-coverts and axillaries white, the latter slightly shaded with grey; quills blackish below, white towards the base of the inner webs; soft parts as in female (*Pollen & Van Dam*). Total length 7 inches, culmen 0·7, wing 3·9, tail 3·3, tarsus 1.

Adult female. Different from the male. Above rusty brown, rather more ashy on the head; least wing-coverts like the back;

median and greater coverts dark brown, edged with the same rusty brown as the back; bastard plumes and primary-coverts blackish brown; quills dark brown, the primaries margined with white brown, the secondaries with rusty brown, the innermost entirely of the latter colour and resembling the back; tail-feathers black, the two centre ones browner, all tipped with white, increasing in extent towards the outermost feathers, which are rather broadly tipped; feathers in front of the eye hoary grey; sides of face greyish white, the feathers edged with dull ashy, producing a mottled appearance; throat and under surface ashy white, the chest and flanks washed with fulvous, the whole under surface narrowly barred with dull blackish cross lines; under tail-coverts white; under wing-coverts white, with narrow cross bars like the breast; quills dull brown below, white towards the base of the inner web; "bill and feet bluish; iris brown" (*Pollen & Van Dam*). Total length 7.7 inches, culmen 0.65, wing 3.9, tail 3.3, tarsus 1.

Hab. Island of Réunion.

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|---------------------------------------|---------------------------|----------------------------------|
| <i>a.</i> ♀ ad., <i>b.</i> ♀ juv. sk. | Réunion. | R. B. Sharpe, Esq. [P.]. |
| <i>c.</i> ♂ ♀ ad. sk. | Réunion, Jan. 4, 1865. | M.M. Pollen and Van Dam [C.]. |
| <i>e, f.</i> ♂ ♀ ad. sk. | Réunion. | M. Van Dam [P.]. |

14. *Lalage insperata*.

Volucivora insperata, *Finsch*, *P. Z. S.* 1875, p. 643; *id.* *Journ. Mus. Godeffr.* Heft xii. p. 27; *id.* *P. Z. S.* 1877, p. 779.

Adult male. General colour above rufous-brown, the rump and upper tail-coverts dull chestnut, contrasting with the back; head rather duller than the mantle; scapular and lesser wing-coverts a little more rufous than the back, the median and greater series ashy, externally rufous, and edged with a narrow margin of darker rufous; quills blackish brown, externally margined with rufous, paler at the tips; two centre tail-feathers rusty brown, the remainder dark brown with pale rufous tips, broader on the outer ones, which are also rufescent along the outer web; feathers in front of the eye dull ashy; sides of face and ear-coverts chestnut with fulvous shaft-lines; sides of neck and entire under surface of body deep chestnut-red, including the under wing-coverts and axillaries; inner edges of quills below pale chestnut. Total length 8.5 inches, culmen 0.75, wing 4.15, tail 3.4, tarsus 1.05.

Hab. Island of Ponapé.

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| <i>a.</i> Ad. sk. | Ponapé (<i>Dr. Kubary</i>). | Museum Godeffroy. |
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15. *Lalage fimbriata*.

Ceblepyris fimbriata, *Tenn.* *Pl. Col.* iii. pls. 249, 250; *Schl. Handl. Dierk.* i. p. 289 (pt.).
Volucivora fimbriata, *Cab. Mus. Hein.* Th. i. p. 61; *Bp. Consp.* i. p. 356 (pt.); *Hartl. J. f. O.* 1865, p. 161 (*excl. syn.*).
Campephaga fimbriata, *Gray*, *P. Z. S.* 1860, p. 354; *id.* *Hand-l. B.* i. p. 338, no. 5104.

Volvocivora vidua, *Hartl. J. f. O.* 1865, p. 163 (type examined).
Campephaga vidua, *Gray, Hand-l. B. i.* p. 338, no. 5110.

Adult male. General colour above dark slaty grey, blacker on the head and sides of face, which have also a slight gloss; wings black, with glossy black margins to the feathers, the least wing-coverts edged with slaty grey like the back; tail black, the two outer feathers with greyish-white spots at the tip, the third feather scarcely perceptibly tipped with white; entire under surface of body slaty grey, darker and blacker on the throat and fore neck; under wing-coverts dark slaty grey; quills ashy, blackish below. Total length 8·5 inches, culmen 0·65, wing 4, tail 3·6, tarsus 0·75.

Adult female. Similar to the female of *L. culminata* described below, but a little larger. Wing 3·8 inches, tail 3·2, tarsus 0·75.

Hab. Java.

| | | |
|---------------|------------|---------------------------|
| a. ♂ ad. sk. | E. Java. | A. R. Wallace, Esq. [C.]. |
| b. Ad. sk. | Java. | J. Inskipp, Esq. [P.]. |
| c. Ad. sk. | Java. | E. Wilson, Esq. [P.]. |
| d, e. Ad. sk. | [Celebes.] | Purchased. |

Subsp. a. *Lalage culminata*.

Ceblepyris culminatus, *A. Hay, Madr. Journ.* xiii. p. 157; *Blyth, J. A. S. B.* xv. p. 307.

Ceblepyris fimbriata (pt.), *S. Müll. Natuurl. Geschied. Land- en Volkenk.* p. 190.

Volvocivora fimbriata (*nec Temm.*), *Sclater, P. Z. S.* 1863, p. 218; *Hartl. J. f. O.* 1865, p. 161 (pt.).

Volvocivora schierbrandii, *Pelz. Reis. Novara, Vög.* pp. 80, 161, Taf. 2. fig. 1; *Hartl. J. f. O.* 1866, p. 161; *Salvad. Ucc. Born.* p. 148.

Volvocivora borneensis, *Salvad. Atti R. Acc. Torino*, iii. p. 532.

Campephaga schierbrandii, *Gray, Hand-l. B. i.* p. 338, no. 5108.

Campephaga borneensis, *Gray, Hand-l. B. iii.* p. 194, sp. 5104 a.

Volvocivora culminata, *Tweeddale, Ibis*, 1877, p. 312; *Hume, Stray F.* 1877, p. 495.

Adult male. Similar to *L. fimbriata*, but smaller and a little lighter slaty grey. Total length 6·5 inches, culmen 0·65, wing 3·8, tail 2·7, tarsus 0·8.

Adult female. General colour above light grey, slightly darker on the head, the rump and upper tail-coverts paler and with hoary white edgings to the feathers; least wing-coverts grey like the back, the median and greater series ashy brown, margined with grey; quills brown, washed with grey on the outer web, the primaries edged with whitish towards the tips of their outer webs; tail blackish tipped with white, more largely on the inner web of the outer feathers, which are more or less mottled with brown cross lines, the outer feather white on the outer web, middle feathers washed with grey; under surface of body greyish white, barrèd across with narrow bars of dusky black; the under tail-coverts white with the cross bars wider apart; breast shaded with grey, the cross bars indistinct and coalescing; under wing-coverts like the breast; lores dusky white;

round the eye a ring of hoary white feathers; ear-coverts slate-colour with distinct white shaft-lines; cheeks white, barred like the throat; quills ashy below, lighter along the edge of the inner web. Total length 7·7 inches, wing 3·8, tail 3·3, tarsus 0·75.

Young birds resemble the old female, but have generally remains of mottling on the upper surface, the feathers having a white tip, preceded by a subterminal line of black; all the quills are tipped with white, the inner secondaries having a subterminal second mark of white. A specimen marked *F. melanoptera*, Bp., from "Pulo-Pinang," seems identical, but has the dark under tail-coverts whitish towards the tips of these feathers.

Hab. Malacca, Sumatra, Borneo.

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| <i>a, b.</i> ♂ ♀ ad. sk. | Kessang, Malacca. | M. Bouvier. |
| <i>c.</i> ♀ ad. sk. | Malacca. | A. R. Wallace, Esq. [C.]. |
| <i>d.</i> ♂ ad. sk. | Pulo-Pinang. | Purchased. |
| <i>e, f.</i> ♂ juv. sk. | Sumatra. | A. R. Wallace, Esq. [C.]. |
| <i>g.</i> ♀ ad. sk. | Sarawak, Borneo. | A. R. Wallace, Esq. [C.]. |
| <i>h, i.</i> ♂ ad.; <i>k.</i> Juv. sk. | Sarawak. | Henry Everett, Esq. [C.]. |
| <i>l.</i> ♂ ad. sk. | Tagora, Sarawak. | Henry Everett, Esq. [C.]. |
| <i>m, n.</i> ♂ ♀ ad. sk. | N.W. Borneo. | Hugh Low, Esq. [C.]. |
| <i>o, p.</i> ♂ ♀ ad.; <i>q.</i> Juv. sk. | Lumbidan. | Governor Ussher [C.]. |

16. *Lalage monacha*.

Campophaga monacha, *Hartl. & Finsch*, *P. Z. S.* 1872, p. 99.

Volvocivora monacha, *Finsch*, *Journ. Mus. Godeffr.* Heft viii. Taf. 3. figs. 2 & 3.

Adult male. General colour above dark bluish slate-colour, the least wing-coverts like the back; median coverts black, broadly edged with grey like the back; greater coverts black edged with grey, inclining to hoary grey on the extreme margin; bastard plumes and primary-coverts black; quills black, with narrow hoary grey margins; two centre tail-feathers ashy grey, tipped with lighter grey, before which there is an extensive subterminal mark of black; remainder of the tail feathers black, tipped with ashy grey; nasal plumes, feathers in front of the eye, and sides of face black, the ear-coverts slightly shaded with grey; throat blackish, gradually shading off into the slaty-grey colour of the rest of the under surface; under wing-coverts like the breast; quills dusky below, the inner webs conspicuously white towards the base. Total length 7·3 inches, culmen 0·7, wing 3·85, tail 2·8, tarsus 0·9.

Adult female. General colour above brown, with ashy margins to the feathers of the head; rump and upper tail-coverts rusty buff, barred with blackish; wing-coverts edged with rufous or rufous-buff, the quills also with rufous margins; centre tail-feathers fulvous brown, the other feathers dark brown, tipped with reddish buff, more broadly towards the outermost feather, which is also rufous along the outer web; lores and feathers at base of forehead dull white; above the eye a faintly indicated rufous eyebrow; round the eye a ring of rufous-buff feathers; feathers in front of the eye and upper

margin of ear-coverts dull brown : cheeks, ear-coverts, and sides of face rufous-buff, the ear-coverts edged with dusky, causing a streaked appearance ; throat ochraceous buff, a little deeper on the rest of the under surface, which is barred across with dark brown, rather more zigzag in shape on the chest : under wing-coverts, axillaries, and under tail-coverts deep ochraceous buff : quills dull brown below, pale rufous along the inner web. Total length 7·4 inches, culmen 0·7, wing 3·75, tail 3, tarsus 0·9.

Young. Resembles the old female, but differs in the whitish tips and edgings to the feathers of the upper surface, and the deeper rufous margins to the quills : below, the under surface is longitudinally streaked with brown.

Obs. This species has the plumage of an *Eulodisoma* in both sexes, but nevertheless seems to have the structure of a *Lalage*.

Hab. Pelew Islands.

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|-------------------------|------------------------|-------------------|
| a. ♂ ad. sk. | Pelew Islands | Museum Godeffroy. |
| | (<i>Dr. Kubarj</i>). | |
| b. ♀ ad.; c. ♀ juv. sk. | Pelew Islands. | Museum Godeffroy. |

17. *Lalage leucomelæna*.

Campephaga leucomela, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 215; *Gould, B. Austr. folio*, ii. pl. 62; *Gray, Gen. B.* i. p. 283; *Reichenb. Vog. Neuholl.* p. 230; *Ramsay, This*, 1865, p. 84; *Gould, Handb. B. Austr.* i. p. 203; *Gray, Hand-l. B.* i. p. 339, no. 5115; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. pt. 1, p. 181.

Lanius karu, *Less. et Garn. Voy. Coquille, Ois.* p. 633, pl. 12.

Ceblepyris karu, *id. tom. cit.* i. p. 633.

Notodela karu, *Less. Traité*, p. 374.

Ceblepyris leucomela, *Rüpp. Mus. Senckenb.* iii. p. 26.

Campephaga karu, *Gould, B. Austr.* ii. pl. 61 (*see Less.*); *Reichenb. Vog. Neuholl.* p. 230; *Bp. Consp.* i. p. 55; *Gray, Cat. B. Trop. Isl. Pacific Ocean*, p. 23; *Finsch, New-Guinea*, p. 172; *Gould, Handb. B. Austr.* i. p. 202; *Ramsay, This*, 1865, p. 84; *Gray, Hand-l. B.* i. p. 339.

Échenilleur à ventre roux, *Hombr. et Jacq. Voy. Île Sud, Atlas*, pl. ii. fig. i.

Campephaga rufiventris, *Gray, Gen. B.* i. p. 283; *id. Hand-l. B.* i. p. 339, no. 5117; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. pt. 1, p. 181.

Lalage leucomela, *Bp. Consp.* i. p. 555; *id. C. R.* xxxviii. p. 541; *Hartl. J. f. O.* 1865, p. 166.

Ceblepyris rufiventris, *Jacq. et Pucher. Voy. Pôle Sud, Zool.* iii. *Ois.* p. 71; *Hartl. J. f. O.* 1854, p. 163.

Lalage karu, *Bp. C. R.* xxxviii. p. 541; *Hartl. J. f. O.* 1865, p. 168; *Sclater, P. Z. S.* 1877, p. 101; *Masters, Pr. Linn. Soc. N. S. W.* i. p. 48; *Salvad. Ann. Mus. Civic. Genov.* ix. p. 28; *id. P. Z. S.* 1878, p. 87; *Sharpe, Journ. Linn. Soc.* xiii. p. 499; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. pt. 2, p. 181.

Lalage rufiventris, *Bp. C. R.* xxxviii. p. 541; *Hartl. J. f. O.* 1865, p. 167.

Campephaga polygrammica, *Gray, P. Z. S.* 1858, p. 179; *id. Cat. B. New Guinea*, p. 32; *Rosenb. J. f. O.* 1864, p. 121; *Finsch, New-Guinea*, p. 172.

Lalage polygrammica. *Gray, P. Z. S.* 1858, p. 193; *Hartl. J. f. O.* 1865, p. 168; *Ietz. Verh. z.-b. Wien*, 1872, p. 429.
Campephaga (Lalage) polygrammica, *Gray, P. Z. S.* 1861, p. 435.

Adult male. General colour above glossy greenish black, rather more steel-black on the head; least wing-coverts greenish black like the back, the median series white with black bases, the greater series black with white tips; quills black, the primaries very narrowly edged with white, much broader on the outer edge of the secondaries; rump grey, with subterminal black spots to the feathers; upper tail-coverts grey, narrowly tipped with white; tail black, the outer feathers broadly tipped with white, decreasing in extent towards the centre of the tail; a broad eyebrow running from the base of the nostrils above the ear-coverts; a broad streak of black running through the eye; cheeks, ear-coverts, and eyelid white, the upper edge of the ear-coverts black; under surface of body white with a slight greyish shade; thighs grey; vent and under tail-coverts orange-buff or deep fawn-colour; under wing-coverts and lining of quills white; "bill black; feet blackish grey externally, bluish grey internally, light mealy ashy grey between the scales and inside the feet; iris dark brown" (*Gould*). Total length 7·8 inches, culmen 0·6, wing 3·9, tail 3·35, tarsus 0·8.

Adult female. Dark ashy brown instead of greenish black, the rump and upper tail-coverts greyer, with hoary margins to the feathers; greater coverts brown with white tips more or less mottled with brown, the greater series broadly edged with white like the secondaries, the primaries being more narrowly margined; primary-coverts conspicuously tipped with white; eyebrow as in male, but mottled, with greyish tips to the feathers; streak through the eye as in male, but duller; ear-coverts as well as upper and lower margin of eyelid silvery white; under surface of body fawn-buff, lighter on the throat, deepening into orange-buff on the vent and under tail-coverts; thighs grey; under surface crossed with wavy lines of dusky blackish, vanishing on the throat and absent on the lower abdomen, vent, and under tail-coverts, which are more richly coloured; under wing-coverts white, washed with fawn-colour. Total length 7·5 inches, wing 4·8, tail 3·2, tarsus 0·9.

Young. Browner than the foregoing description, the rump and upper tail-coverts strongly washed with ochraceous, as also the least wing-coverts; underneath paler buff than in the female, with the bars more broken up.

Hab. Australia, New Ireland, South-eastern New Guinea, Aru Islands.

| | | |
|---|---|---------------------------|
| <i>a.</i> Juv. sk. | Australia. | Linnean Society [P.]. |
| <i>b.</i> ♂ ad. st. | Australia. | J. Gould, Esq. [P.]. |
| <i>c.</i> ♂ ad. sk. | Rockingham Bay (<i>J. Macgillivray</i>). | Capt. Stanley [P.]. |
| <i>d.</i> ♀ ad. sk. | Dunk Island (<i>J. Macgillivray</i>). | Capt. Stanley [P.]. |
| <i>e.</i> Juv. sk. | Port Essington. | Capt. Chambers [P.]. |
| <i>f.</i> ♂ ad.; <i>g, h.</i> ♀ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. |

18. *Lalage aurea*.

Ceblepyris aureus, Temm. *Pl. Col.* ii. pl. 382. fig. 2; *S. Müll. Nat. Versch. Land- u. Volkenk.* p. 190; *Rüpp. Mus. Senck.* iii. p. 24; *Jacq. et Pucher. Voy. Pôle Sud*, iii. Ois. p. 71; *Hartl. J. f. O.* 1854, p. 163.

Echenilleur oranga, *Hombr. et Jacq. Voy. Pôle Sud, Atlas*, pl. 10. fig. 3.

Campephaga aurea, *Gray, Gen. B.* i. p. 283; *id. Hand-l. B.* i. p. 339.

Lalage aurea, *Bp. Conspect.* i. p. 355; *id. C. R.* xxxviii. p. 541; *Hartl.*

J. f. O. 1865, p. 168; *Finsch, Neu-Guinea*, p. 172; *J. f. O.*

1866, p. 12; *Walden, Tr. Z. S.* viii. p. 70.

Campephaga (Lalage) aurea, *Gray, P. Z. S.* 1860, p. 353.

Adult male. General colour above glossy blue-black, with a few of the lower rump-feathers narrowly edged with white (perhaps the remains of young plumage); least wing-coverts like the back, the median series white, forming a bar across the wing; greater series black, white for the terminal half, forming a second wing-bar; primary-coverts and quills black, white along their inner webs, the secondaries broadly margined with white externally, forming a longitudinal wing-bar; tail black, the two outer feathers conspicuously tipped with white; over the eye a narrow streak of white, round the eye a ring of white feathers; feathers at base of bill, in front of and behind the eye, blue-black like the crown; ear-coverts white, black on their upper margin, the white extending a little way down the sides of the neck; chin and cheeks also white; rest of under surface of body chestnut, paler on the throat; thighs black, with white tips to the feathers; on the lower flanks a tuft of silky white feathers hanging over from the lower back; under wing-coverts pure white, as also the inner lining of the quills. Total length 8 inches, culmen 0.55, wing 3.9, tail 3.4, tarsus 0.8.

Adult female. Differs from the male in being slaty grey with a gloss of blue-black, the feathers of the crown with blackish centres; wings and tail as in the male, but the white tip to the penultimate tail-feather very indistinct; white eyebrow very narrow; cheeks and ear-coverts mottled, white with dusky grey margins; under surface as in male, but the white chin-spot indistinct. Total length 7.5 inches, wing 3.7, tail 3.15, tarsus 0.75.

Young male. Similar to adult female, but with white cheeks as in old male; eyebrow continued to base of bill, and tinged with rusty; feathers of rump and upper tail-coverts edged with rust-colour, as also many of the feathers of the upper surface; primary-coverts tipped with white; feathers of the breast with mesial spots of dark brown; chin rufous, like the rest of the under surface. (*Mus. Civic. Genov.*)

Hab. Molucca Islands: Batchian, Gilolo, Ternate, Morty Island.

| | | |
|--------------------------|-----------|---------------------------|
| <i>a, b.</i> ♂ ♀ ad. sk. | Ternate. | A. R. Wallace, Esq. [C.]. |
| <i>c, d.</i> ♂ ♀ ad. sk. | Batchian. | A. R. Wallace, Esq. [C.]. |
| <i>e.</i> ♂ juv. sk. | Batchian. | A. R. Wallace, Esq. [C.]. |

10. SYMMORPHUS.

Type.

Symmorphus, *Gould, P. Z. S.* 1837, p. 145 *S. leucopygius*.*Range.* Norfolk Island; New Caledonia; New Hebrides group.*Key to the Species.*

- a.* Greenish black; rump ochraceous buff; upper tail-coverts grey *leucopygius*, p. 109.
b. Brown; rump ashy buff; upper tail-coverts brown *nerius*, p. 110.

1. *Symmorphus leucopygius*.

Symmorphus leucopygius, *Gould, P. Z. S.* 1837, p. 145; *Gray, Ibis*, 1862, p. 226; *Hartl, J. f. O.* 1865, p. 170.

Campephaga leucopygia, *Gray, Gen. B.* i. p. 283; *id. Hand-l. B.* i. p. 339, no. 5130.

Campephaga longicaudata, *Pelz, Sitz. Akad. Wien*, xli. p. 321; *Gray, Ibis*, 1862, p. 226.

Adult male. General colour above glossy greenish black, the plumage soft and fluffy; rump fawn-buff; upper tail-coverts dark grey; tail black, the feathers tipped with white, increasing in extent towards the outer ones, the last one being black for the basal, and white for the terminal half; least and median wing-coverts pure white; greater series black, with white edgings and tips, the inner ones white externally, black on the inner web; primary-coverts and quills black, the primaries narrowly edged with white, the secondaries more broadly; lores black, mottled with a few white feathers; lower margin of the eyelid white; cheeks and ear-coverts yellowish white, extending backwards and occupying the entire sides of the neck; entire under surface of body light ochraceous buff, the throat white; under wing-coverts and base of inner web of quills white, slightly washed with ochraceous buff; "iris black" (*Brenchley*). Total length 7·2 inches, culmen 0·6, wing 3·6, tail 3·5, tarsus 1.

Adult female. Browner than the male, the head with blackish centres to the feathers; upper tail-coverts with sandy margins; wing-coverts washed with sandy buff, some of them edged with brown; secondaries with sandy margins; lores whitish, but not forming an eyebrow; under surface of body as in the male, but with a few remains of zigzag cross markings on the sides of the breast. Total length 7·2 inches, wing 3·4, tail 3·35, tarsus 0·95.

Hab. Norfolk Island.

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|---------------------|----------------------------|--------------------------|
| <i>a.</i> ♂ ad. st. | Norfolk Island. | Dr. Rayner* [C.]. |
| <i>b.</i> ♀ ad. sk. | Norfolk Island. | Dr. Rayner [C.]. |
| <i>c.</i> ♂ ad. sk. | Norfolk Island, June 1865. | J. Brenchley, Esq. [P.]. |

2. *Symmorphus nævius*.

Muscicapa nævia, *Forster, Icon. ined. MS.* pl. 159.

Nævius Flycatcher, *Lath. Gen. Syn.* ii. p. 343 (*ex Forster*).

Muscicapa nævia, *Gen. S. N.* i. p. 944 (*ex Lath.*); *Forster, Deser. Anim.* p. 269; *Gray, Gen. B.* i. p. 263.

Campophaga nævia, *Gray, P. Z. S.* 1859, p. 163; *id. Cat. B. Trop. Isl. Pacific Ocean*, p. 22; *id. Hand-l. B.* i. p. 339, no. 5122.

Lalage montrosieri, *Verr. Rec. et Mag. de Zool.* 1860, p. 431; *Hartl. J. f. O.* 1865, p. 165.

Lalage nævia, *Hartl. J. f. O.* 1865, p. 169; *Tristr. Ibis*, 1876, p. 263.

Campophaga montrosieri, *Gray, Hand-l. B.* i. p. 339.

Adult male. General colour above dark earthy brown, the feathers of the head with black centres; across the rump a band of ashy grey feathers, edged with fulvous; upper tail-coverts brown, like the rest of the back; scapulars brown, as also the least wing-coverts; median wing-coverts sandy buff, with more or less broad central markings of brown; greater wing-coverts and quills brown, edged with sandy buff externally, these margins very narrow on the primaries; primary-coverts entirely brown; tail blackish, the four outer tail-feathers tipped with white, broader on the outermost, the centre tail-feathers browner and not tipped with white; a line of white feathers from the base of the nostrils to above the fore part of the eye; in front of the eye a blackish spot; eyelid above and below buffy white, brown before and behind; sides of face, ear-coverts, and sides of neck, as well as entire under surface, white, the breast with a yellowish tinge; under wing-coverts and quill-linings white; thighs white with blackish bases; bill black; "iris black" (*Brenchley*). Total length 6·6 inches, culmen 0·65, wing 3·4, tail 3·25, tarsus 0·95.

Young. Mottled on the upper surface, with white tips to many of the feathers; rump more fulvescent, with dusky cross bars; underneath more ochraceous, but without dusky cross bars.

Hab. New Caledonia and New Hebrides.

| | | |
|----------------------|-----------------------------------|--------------------------|
| <i>a.</i> ♂ ad. sk. | Port de France, N. C., Oct. 1865. | J. Brenchley, Esq. [P.]. |
| <i>b.</i> Jun. sk. | Nu. Port de France. | Purchased. |
| <i>c.</i> ♂ ad. sk. | New Caledonia. | M. Verreaux. |
| <i>d.</i> ♂ jun. sk. | Ancitenu, New Hebrides. | Purchased. |

Family MUSCICAPIDÆ.

Passerine birds of very varied form, and embracing within their limits a large number of genera. The affinities of the family lie in several directions, but they connect the Wood-Shrikes with the Thrushes by means of a gradual succession of genera, so that, as a family, the characters of definition are most obscure. Some of the genera evince a great likeness to the Timeliidæ, such as *Leioptilus*; to the Prionopidæ, as in the case of *Cassinia*; and especially to the Warblers, as in the case of *Cryptolopha* and *Gerygone*. The most perfectly developed Flycatchers are probably the Paradise Flycatchers (*Terpsiphona*), the Fantails (*Rhipidura*), and the broad-billed *Myiagra* and the allied genera. From these birds, with their broad, flattened bills and ample bristles, there are gradations on all sides towards the families mentioned above; and the series is in some instances so complete, that it is difficult to draw an exact line of distinction, so that some of the outlying genera might almost be included in the *Timeliæ* or in the *Sylviæ*.

Key to the Genera.

- a.* Wings long, falling short of the tail by not more than the length of the tarsus; *i. e.* the distance between the wings and the tip of the tail not exceeding the tarsus in length; the wing longer than the tail.
- a'.* Bill moderately broad: when measured across the nostrils equal to the hind toe without claw.
- a''.* Wing much pointed, the distance between the tips of the primaries and the secondaries equal to or greater than the culmen.
- a'''.* Bill flattened, the sides bowed from the base and gradually bending inwards towards the tip; length of gonys not equal to that of the hind toe without the claw 1. HEMICHELIDON, p. 120.
- b''.* Bill rather stout and slightly arched, the outline of the sides of the bill nearly straight and only slightly inclining inwards towards the tip.
- a¹.* Wings extremely long, falling short of tail by about the length of the culmen 2. MICROCEA, p. 122.
- b¹.* Wings rather shorter, the distance between the tips of the primaries and the end of the

- tail more than the length of the culmen 3. *ALSKONAX*, p. 126.
- b'*. Wing rounded, the distance between the tips of the primaries and the secondaries not so great as the length of the culmen.
- c'''*. Wing not double the length of the tail; no eye-wattle 4. *BATIS*, p. 133.
- d'''*. Wing more than double the length of the tail, which is very short; round the eye a fleshy wattle.... 5. *DIAPHOROPHYIA*, p. 140.
- b'*. Bill extremely broad; when measured across the nostrils exceeding the length of the hind toe without claw; wings very long, falling short of the tail by less than the length of the culmen ... 6. *BIAS*, p. 142.
- c'*. Bill much narrower, when measured across the nostrils much less than the length of the hind toe without claw.
- c''*. Bill tolerably broadened, measured at gape equal to or exceeding the length of the culmen 7. *ARTOMYIAS*, p. 144.
- d''*. Bill moderately broadened, the breadth of it at gape less than the length of the culmen.
- e'''*. Tarsus of varying proportions, but never twice the length of the culmen.
- e⁴*. Wings moderately long, but falling short of the tail by more than the length of the culmen.
- a⁵*. Second primary shorter than the secondaries, the latter nearly equalling the primaries in length.
- a⁶*. An erect fleshy wattle above the eye 8. *PLATYSTIRA*, p. 145.
- b⁶*. Without an eye-wattle.... 9. *NEWTONIA*, p. 148.
- b⁵*. Second primary longer than the secondaries, and sometimes approaching the third in length.
- c⁶*. Wing pointed and long, but not reaching as near the tip of the tail as the length of the culmen; bill tolerably long, the culmen more than twice the width of the bill at gape; bristles scanty 10. *MUSCICAPA*, p. 149.
- d⁶*. Wing very much longer, the distance between the tips of the primaries and the tip of the tail not so great as the length of the tarsus; the culmen not exceeding twice the width of the bill

- at gape; first primary much longer than the primary-coverts.
- a*⁷. Under tail-coverts short, falling short of the tail by more than the length of the tarsus.
- a*⁸. Bill slender, about equal in height and breadth at the nostrils 11. PETRÆCA, p. 164.
- b*⁸. Bill stouter, broader at the nostrils than it is high.
- a*⁹. Second primary very long, longer than the secondaries, the first primary *not* half the length of the second. 12. PRATINCOLA, p. 178.
- b*⁹. Second primary moderately long; the first primary more than half the length of the second. [p. 199. 13. ERYTHROMYIAS,
- b*⁷. Under tail-coverts long, falling short of the tail by less than the length of the tarsus.
- c*⁸. Bill rather *broad*, with well-defined culmen, broader at the nostrils than it is high.
- c*⁹. Bill shorter, the culmen not exceeding the inner toe and claw in length 14. POLIOMYIAS, p. 201.
- d*⁸. Bill stout, and broader, the culmen far exceeding the inner toe and claw in length 15. MUSCICAPULA, p. 203.
- d*⁹. Bill much slighter and more slender, about equal in breadth and height at nostrils.
- e*⁹. Culmen less than the hind toe and claw, the bill itself extremely small 16. SMICRORNIS, p. 209.
- f*⁹. Culmen exceeding in length the hind toe and claw 17. GERYGONE, p. 211.
- e*⁵. Second primary about equal to the secondaries.
- e*⁶. Feet not very strong, the tarsus not double the length of the outer toe and claw.

- c*⁷. Nostrils linear and shut in by a membrane; bristles scanty [p. 215.
18. PSEUDOGERYGONE,
- d*⁷. Nostrils rounded and exposed.
- e*⁸. Bill bowed at the sides, bending inwards towards the tip; bristles plentiful, and reaching beyond the middle of the bill 19. CHASIEMPIS, p. 231.
- f*⁸. Bill nearly straight along the outer edge; bristles scanty, and not reaching to the middle of the bill 20. MUSCULVA, p. 233.
- e*. Feet very large, the tarsus more than double the outer toe and claw; bill slender; bristles numerous but slight, and not reaching beyond the middle of the bill 21. MIRO, p. 234.
- d*⁴. Wings very long, falling short of the tail by not more than the length of the culmen.
- d*⁷. Bill higher than it is broad at the nostrils.
- g*⁶. Wings reaching to the tip of the tail 22. LANIOTURDUS, p. 237.
- h*⁶. Wings long, falling short of the tail by about as much as the length of the hind toe and claw.
- e*⁷. Feet rather small, the middle toe and claw not exceeding the hind toe and claw 23. METABOLUS, p. 238.
- f*⁷. Feet larger, the middle toe and claw longer than the hind toe and claw .. 24. HETEROMYIAS, p. 239.
- e*². Bill broader than it is high at the nostrils.
- i*⁵. Tarsus shortened, not so long as the middle toe and claw 25. MONACHELLA, p. 240.
- k*⁵. Tarsus long, equal to or exceeding the length of the middle toe and claw.
- g*⁷. Second primary shorter, only a little longer than the secondaries, and not exceeding them by as much as the length of the hind toe without claw 26. PŒCILODRYAS, p. 240.
- h*⁷. Second primary very long, almost as long as the

third, and exceeding the length of the secondaries by as much as the length of the hind toe.

g^a. Bill long and thin, the length of the culmen equal to three times the breadth of the bill at the nostrils 27. *HYLIOTA*, p. 247.

h^a. Bill broad, the culmen equal to only twice the breadth of the bill at nostrils 28. *NANTHOPYGIA*, p. 249.

f^m. Tarsus extremely powerful, more than twice the length of the culmen 29. *TARSIGER*, p. 254.

b. Wings shorter, falling short of the tail by more than the length of the tarsus.

d^a. Wings about equal to the tail in length.

e^a. Second primary longer than the secondaries; bill moderately broad, measuring at the forehead not nearly as much as the inner toe without its claw.

g^m. Head crested; bill stout and broader than it is high at the base of the forehead; rictal bristles insignificant, and not reaching beyond the anterior edge of the nostril 30. *LIPTILUS*, p. 262.

h^m. Head not crested; bill thin and long, nearly straight, and only slightly decurved at the tip; rictal bristles strongly developed and springing from both mandibles, far extending beyond the anterior edge of the nostrils; bill rather broadened, wider at base of forehead than it is high.

e^l. Nostrils rounded, in a groove, with no superior membrane. . . 31. *OREICOLA*, p. 263.

f^l. Nostrils linear, in a groove, and shut in by a membrane 32. *STENOSTIRA*, p. 267.

i^m. Head not crested; bill stouter, with strongly curved gonys and culmen; rictal bristles insignificant, and not extending beyond the anterior edge of the nostril; bill rather compressed, about equal in height and breadth at the base of the forehead 33. *PARISOMA*, p. 268.

f^m. Second primary about equal to the secondaries; bill narrow, with numerous and strong bristles reaching for two thirds of the length of the bill 34. *ÆTHOMYIAS*, p. 271.

g^m. Second primary equal to the secon-

- daries in length; bill very broad, measuring at the forehead as much as the inner toe without its claw; the bristles extending a little over half its length; feet very stout, the wing not three times the length of the tarsus 35. CHLOROPETA, p. 272.
- h''*. Second primary not as long as the secondaries; bill very broad, and measuring at the forehead as much as the inner toe without its claw.
- k'''*. Bill stout, curved and very plainly notched, the upper mandible armed with a few strong black rictal bristles, the lower mandible with scarcely any bristles at all.
- g'*. Head with scale-like velvety plumes; no tufts of feathers on the sides of the head 36. HYPOTHYMIS, p. 273.
- h'*. Head with a long tuft of feathers springing from each side of the occiput 37. CYANOMYIAS, p. 278.
- l'''*. Bill very weak, strongly hooked at the tip; bristles numerous and hiding the nostrils, springing in equal profusion from the lower mandible as well as the upper; feet very weak [p. 279.] 38. CHELIDORHYNX,
- i''*. Second primary not as long as the secondaries; bill long, distinctly notched, moderately broad, but not measuring at the forehead nearly as much as the inner toe without its claw.
- m'''*. Bill rather narrow and long, measuring across the nostrils less than the hind claw; bristles not reaching to half the length of bill 39. TODOPSIS, p. 280.
- n'''*. Bill long but broad, measuring across the nostrils as much as hind claw; bristles reaching to more than half the bill. [p. 281.] 40. CHENORHAMPHUS,
- e'*. With the tail longer than the wing.
- k''*. Tail graduated, the two centre feathers not exceeding the next one by as much as the length of the culmen.
- o'''*. Tarsus longer than the culmen.
- i'*. Wing rounded, the distance between the tips of the primaries and the tips of the secondaries less than the culmen.
- f'*. Tail strongly graduated, so that the distance between the outer and the middle feathers is equal to the tarsus.
- l'*. Bill very broad, long, and

- flat, broader than it is high,
flatter than in *Todopsis* . . . 41. CLYTONMIAS, p. 285.
- m*⁵. Bill stouter, about equal in
height and breadth 42. MALURUS, p. 285.
- g*¹. Tail rounded, the distance be-
tween the outer and middle
feathers not so great as the
length of the tarsus; bill
weak; bristles very numer-
ous, and reaching to the end
of the bill [p. 298.
43. ERYTHROCERCUS,
- k*¹. Wing tolerably pointed, the dis-
tance between the tips of the
primaries and those of the secon-
daries equal to or greater than
the culmen.
- k*⁵. With a large crest of elongated
plumes [p. 299.
44. TROCHOCERCUS,
- ē*. With no elongated crest, the
plumage of the head full . . . 45. RHIPIDURA, p. 303.
- p*^{'''}. Tarsus shortened, not so long as
the culmen.
- l*¹. With no wattle round the eye;
feathers of head ordinary . . . 46. NEOMYIAS, p. 342.
- m*¹. With a wattle round the eye;
plumes of head velvety and
scale-like 47. ZEOCEPHUS, p. 342.
- l*^{''}. Tail with elongated centre tail-fea-
thers, these exceeding the next ones
by more than the length of the
culmen.
- q*^{'''}. Bill very large and broad, longer
than the tarsus; bristles scanty
but very strong, not reaching be-
yond the half of the bill 48. TERPSIPHONE, p. 344.
- r*^{'''}. Bill very weak and small, shorter
than the tarsus; bristles very full
and numerous, reaching nearly to
the end of the bill 49. ELMINIA, p. 363.
- f*^{''}. With the wing longer than the tail.
- n*^{''}. Second primary shorter than the
secondaries, the third equal to the
latter; wing rounded, the distance
between the primaries and the secon-
daries not so great as the culmen . . 50. PHILENTOMA, p. 365.
- n*^{''}. Second primary about equal to the
secondaries.
- s*^{'''}. Bill moderately broad: when mea-
sured at base of forehead, equal to
the hind toe without claw.
- n*¹. Wing rather pointed, the differ-
ence between the tips of the pri-
maries and the tips of the
secondaries equal to or greater
than the length of the culmen.
- k*⁵. The distance between the tips

- of the primaries and the tip
of the tail not as much as
twice the length of the tarsus.
- n*⁶. Outline of bill straight along
the edges; culmen much
hooked 51. RHINOMYIAS, p. 367.
- o*⁶. Outline of bill bowed in to-
wards the tip; bill flattened 52. CUTICICAPA, p. 369.
- l*⁵. The distance between the tips
of the primaries and the end
of the tail more than twice
the length of the culmen; bill
arched and rather stout 53. MYIAGRA, p. 371.
- o*⁴. Wing rounded, the distance be-
tween the primaries and the
secondaries not so great as the
length of the culmen.
- m*⁵. Hind toe equal in length to
middle toe (without claws);
nostrils rounded, and not
hidden by bristles 54. PSEUDOMYIAS, p. 386.
- n*⁵. Hind toe less than the middle
toe (without claws); nostrils
quite concealed by bristles.
- p*⁶. Bill longer and narrower
than the next; when mea-
sured at gape only about
equal to half the culmen. . . 55. MEGALOMYIAS, p. 387.
- q*⁶. Bill very broad, measuring
at gape as much as the
culmen 56. SMITHORNIS, p. 388.
- t*⁷. Bill extremely broad and flattened
on both mandibles; when mea-
sured at base of forehead exceed-
ing the length of the hind toe
without claw; culmen elevated
into a distinct ridge; wings mo-
derately long, falling short of the
tail by more than the length of
the culmen [p. 390.
- u*⁷. Bill much narrower, measured
across the nostrils less than the
hind toe and claw. 57. MACLEODORHYNCHUS,
- p*⁴. Nostrils hidden by bristles; size
small 58. CRYPTOLOPHIA, p. 393.
- g*⁴. Nostrils rounded and exposed.
- o*⁵. Bill extremely long and thin,
the culmen exceeding the
length of the middle toe and
claw 59. SISURA, p. 407.
- p*⁵. Bill stouter, the culmen not
as long as the middle toe and
claw.
- r*⁶. With a fleshy eye-wattle . . 60. ARSES, p. 408.
- s*⁶. Without an eye-wattle.
- i*⁷. Plumage of head velvety,

- with soft scale-like
plumes on the crown of
head and throat [p. 413.
- k*⁷. Plumage of head ordinary 61. PIEZORHYNCHUS,
62. MONARCHA, p. 429.
- o*¹¹. Second primary longer than the
secondaries; wing short.
- v*¹¹. Nostrils rounded and exposed, not
overhung by a membrane or con-
cealed by bristles.
- r*⁴. Bill very broad and powerful,
when measured at base of fore-
head equal to the hind toe with-
out claw; wing pointed, the
distance between the tips of
primaries and the tips of secon-
daries greater than the length
of the tarsus 63. PELTOPS, p. 433.
- s*⁴. Bill rather narrow; when mea-
sured at base of forehead much
less than hind toe without claw;
wing rather rounded, the dis-
tance between the tips of pri-
maries and the tips of secon-
daries less than length of tarsus 64. POMAREA, p. 434.
- w*¹¹. Nostrils obscured by bristles and
overhanging frontal plumes, so
that the nasal openings are not
visible and are sometimes shut in
by a membrane.
- t*⁴. Bill much narrower; when mea-
sured across the base of the
forehead much less than the
hind toe without claw.
- q*⁵. Wing pointed and long, but
not reaching as near the tip
of the tail as the length of
the tarsus.
- l*⁶. Bill rather long, the culmen
not equal to twice the
width of the bill at gape;
bristles numerous. 65. STOPAROLA, p. 435.
- w*⁶. Bill much longer, the cul-
men twice as long as it is
broad at gape.
- l*⁷. Hind claw moderate and
curved, but not nearly
as long as the hind toe. . 66. SIPHIA, p. 441.
- m*⁷. Hind claw very long and
strongly curved, about
equal in length to the
hind toe itself 67. DIGENEA, p. 458.
- r*⁵. Wings very short; bill stout,
the culmen not as long as the
middle toe and claw; dis-
tance between wings and
tail greater than twice the

- length of the tarsus; bill swollen towards the tip, before which the culmen is indented 68. NILTAVA, p. 462.
- a*. Bill broader; when measured across the base of the forehead equal to the hind toe without the claw 69. CASSINIA, p. 463.

1. HEMICHELIDON.

Hemichelidon, *Hodgson, P. Z. S.* 1845, p. 32 Type. *H. sibirica*.



Bill of *Hemichelidon ferruginea*.

Range. Eastern Siberia; throughout China and Burmese countries; India.

Key to the Species.

- a*. Tail uniform; upper surface of body dusky or ashy brown, the upper tail-coverts like the back; quills edged with lighter brown *sibirica*, p. 120.
- b*. Tail particoloured, the feathers rufous-brown at the tips and on the outer webs; rump and upper tail-coverts rufous; under surface of body orange-rufous *ferruginea*, p. 122.

1. Hemichelidon sibirica.

- Dun Flycatcher, *Penn. Arctic Zool.* ii. p. 390.
- Muscicapa sibirica, *Gm. S. N.* i. p. 936 (*ex Pennant*); *Schrenck, Reis. Amurl. Voy.* p. 379; *Radde, Reis. Sibir.* ii. p. 271.
- Muscicapa fuscicula, *Pall. Zoogr. Rosso-Asiat.* i. p. 462.
- Hemichelidon fuliginosa, *Hodgs. P. Z. S.* 1845, p. 32 (types examined); *Gray, Cat. Mamm. &c. Nepal Coll. Hodg.* p. 91; *id. Gen. B. i.* p. 262; *Blyth, J. A. S. B.* xvi. p. 119; *id. Cat. B. Mus. A. S. B.* p. 175; *Ibp. Consp.* i. p. 321; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 137; *Jerdon, B. Ind.* i. p. 458; *Hume & Henders. Lahore to Yark.* p. 184, pl. 4.
- Butalis sibirica, *Swinh. P. Z. S.* 1863, p. 288, 1870, p. 440, 1871, p. 379; *Blyth & Wald. B. Burm.* p. 134; *Taczan. Bull. Soc. Zool. France*, i. p. 168; *David & Oustalet, Ois. Chine*, p. 122.
- Hemichelidon sibiricus, *Gray, Hand-l. B. i.* p. 324, no. 4862; *Hume, Nests & Eggs Ind. B.* p. 106; *id. Str. F.* 1875, pp. 104, 321; *Brooks, t. c.* p. 275; *Armstr. Str. F.* 1876, p. 323; *Hume & Davison, Str. F.* 1878, p. 226.

Adult male. General colour above brown; least wing-coverts uniform with the back, the greater series dark brown with lighter brown tips to the median series, the greater coverts tipped with whitish; primary-coverts and primaries dark brown, the secondaries edged with pale brown, whitish at the tips; tail dark brown; lores buffy white; in front of the eye a dusky spot; round the eye a ring of buffy-white feathers; feathers below the eye and ear-coverts brown like the crown; cheeks white, mottled with brown bases to the feathers; throat white, widening out on the lower part and separated from the cheeks by a broad moustachial line of brown; breast and sides of body ashy brown, the former slightly mottled with grizzly white edgings to the feathers; abdomen and under tail-coverts pure white; thighs brown; under wing-coverts light tawny, with dusky bases to the feathers, the quills ashy brown below with an edging of light tawny to the inner webs; "upper mandible dusky black; lower mandible yellowish brown, tipped with dusky; legs and feet brownish black; iris dark brown" (*Armstrong*). Total length 4.9 inches, culmen 0.4, wing 3.15, tail 2.2, tarsus 0.5.

Obs. The description is from a specimen collected by Dr. Radde in Eastern Siberia on the 18th of May, 1856, and therefore in full breeding-plumage. Examples from other parts of China and the Himalayas are similar, but great variation takes place in this species as regards the tone and intensity of the brown colour both on the upper and under surface, and also in the uniform or mottled colour of the breast. The coloration of the throat is very different in individuals, being in some almost uniform brown, succeeded by a jugular spot of white.

Young (Peking, Sept. 1868, *R. Swinhoe*). Ashy brown, mottled with whitish streaks and terminal spots to the feathers, the greater coverts edged and tipped with buffy white, the rest of the coverts spotted with whitish at the tip like the back; primary-coverts and quills dark brown, the inner secondaries edged and tipped with pale rufous; under surface very thickly mottled with brown, the feathers being white with dusky brown edges. (*Mus. H. Seebohm*.)

Hab. Eastern Siberia, China, Burmese countries, Himalaya Mountains.

| | | |
|---|----------------------|-----------------------------------|
| <i>a.</i> Ad. sk. | N. India. | Earl of Giffard [P.]. |
| <i>b.</i> Ad. sk. | Cashmere. | R. B. Sharpe, Esq. [P.]. |
| <i>c.</i> ♂ ad.; <i>d, e.</i> ♀ ad. sk. | Sonamarg, July 1875. | Capt. Biddulph [C.]. |
| <i>f.</i> ♀ ad. sk. | Rawul Pindee. | Capt. Biddulph [C.]. |
| <i>g-k.</i> Ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>l-q.</i> Ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| | | (Types of <i>H. fuliginosa</i> .) |
| <i>r.</i> Juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>s-v.</i> Ad. sk. | Darjiling. | J. Fotheringham, Esq. [C.]. |
| <i>w, x.</i> Juv. sk. | Darjiling. | J. Fotheringham, Esq. [C.]. |

2. *Hemichelidon ferrugineus*.

- Hemichelidon ferruginea*, *Hodgs. P. Z. S.* 1845, p. 32 (types examined); *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 91; *id. Gen. B. i.* p. 262; *Blyth, J. A. S. B.* xvi. p. 119; *id. Cat. B. Mus. A. S. B.* p. 173; *Bp. Consp.* i. p. 321; *Horsf. & Moore, Cat. B. Mus. E. I. Co. i.* p. 137; *Swinh. P. Z. S.* 1861, p. 40; *Gray, Hand-l. B. i.* p. 324, no. 4863; *Hume, Nests & Eggs Ind. B.* p. 207.
Butalis rufescens, *Blyth, J. A. S. B.* xvi. p. 120 (*ex Jerdon, MS.*).
 ? *Alseonax rufescens*, *Cabanis, Mus. Hein.* Th. i. p. 53.
Hemichelidon rufilata, *Swinh. Ibis*, 1860, p. 57.
Alseonax ferrugineus, *Jerd. B. Ind.* i. p. 460.
Butalis ferruginea, *Swinh. P. Z. S.* 1863, p. 288, et 1871, p. 379; *Blyth, B. Burm.* p. 104; *David & Oustalet, Ois. Chine*, p. 121.

Adult. General colour above rufous-brown, shading into chestnut on the rump and upper tail-coverts: head and nape sooty brown: least wing-coverts like the back, the remainder of the coverts and the secondaries blackish brown, edged and tipped with chestnut-rufous, paler on the margins of the inner secondaries: primary-coverts and primaries nearly uniform blackish brown, the first primary broadly edged with rufous; two centre tail-feathers dusky brown, the remainder rufous, dusky brown along the outer web, the inner web more or less dusky near the tip: round the eye a distinct ring of buffy-white feathers: lores rufous; feathers in front of and below the eye and the ear-coverts dusky brown, mottled with whitish shaft-lines or spots: under surface of body orange-rufous, the throat and sides of the breast shaded with dusky brown: centre of abdomen white: throat pale rufous-buff, with dusky margins to most of the feathers: the bases to the plumes of the lower throat white, forming a concealed white patch: under wing-coverts deep orange-rufous; quills dark brown below, edged with light rufous along the inner web: "bill black, with the base of the lower mandible whitish; feet dull grey, with the soles yellow and the nails grey; iris brown" (*David*). Total length 4·5 inches, culmen 0·45, wing 2·8, tail 2, tarsus 0·5.

Obs. In some specimens the throat is pure white, with a malar streak on each side of dusky black: the outer tail-feathers appear gradually to lose all the dusky markings on the outer web.

Hab. Eastern Himalayas, extending into Southern China.

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|----------------------|------------|-----------------------------|
| <i>a-e.</i> Ad. sk. | Nepal. | B. H. Hodgson, Esq. [P]. |
| | | (Types of species.) |
| <i>f, g.</i> Ad. sk. | Darjiling. | J. Fotheringham, Esq. [C.]. |

2. *MICRÆCA* *.

Microæca, *Gould, P. Z. S.* 1840, p. 172 Type.
Muscicapa (pt.), *Gray*. *M. assimilis*.

* The following species have been included in Mr. G. R. Gray's 'Hand-list' under the genus *Microæca*:

1. *M. conspicillata*, *Gray, P. Z. S.* 1859, p. 150; is a *Pseudogerygone*, and is described later on.

Range. Confined to Australia, New Guinea, and the adjacent islands.



Bill of *Microeca fascians*.

Key to the Species.

- a.* Belly and under tail-coverts white.
 - a'.* Larger; wing 3·45 inches: outer tail-feathers entirely pure white; axillaries light brown. *fascians*, p. 123.
 - b'.* Smaller; wing 3·35 inches: outer tail-feather blackish brown, white at tip of inner web and along the outer one *assimilis*, p. 124.
- b.* Belly and under tail-coverts yellow; head uniform with back.
 - a''.* Larger; wing 3·1 inches: lower mandible yellowish; feet pale; olive-green above; below very pale yellow with olive-green sides to the body *flavovirescens*, p. 125.
 - b''.* Smaller; wing 2·75 inches: lower mandible dark horn-colour, the upper one brown; legs blackish; olive-brown above, more or less tinged with yellow; below pale yellow, the sides scarcely darker; throat white or paler yellow; lores dull whitish *flavigaster*, p. 126.

1. *Microeca fascians*.

Fascinating Grosbeak, *Lath. Gen. Syn. Suppl.* ii. p. 197.

Loxia fascians, *Lath. Ind. Orn. Suppl.* ii. p. xlv.

Myiagra macroptera, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 254 (type examined).

Muscicapa platyrhyncha, *Quoy et Gaim. Voy. de l'Astrolabe, Zool.* i. Ois. p. 178, pl. 11. fig. 1.

Microeca macroptera, *Gould, P. Z. S.* 1840, p. 172; *id. B. Austr.* ii. pl. 93; *Reich. F. Neuh.* p. 221.

Myiagra fascians, *Gray, Gen. B.* i. p. 261.

Microeca leucophaea, *Blyth, Cat. B. Mus. A. S. B.* p. 177, no. 1036.

Microeca fascians, *Bp. Consp.* i. p. 320; *Gould, Handb. B. Austr.* i. p. 258; *Ramsay, P. Z. S.* 1875, p. 586; *id. Proc. Linn. Soc. N. S. W.* ii. pt. 2, p. 183.

Muscicapa fascians, *Gray, Hand-l. B.* i. p. 323, no. 4855.

Adult. General colour above ashy brown, the upper tail-coverts

- 2. *M. superciliosa* (Wall.), *Gray, Hand-l. B.* i. p. 324, is *Phylloscopus presbytis* (Müller), ex Timor. Cf. Seebohm, 'Ibis,' 1877, p. 83.

blackish brown, in strong contrast to the back ; tail-feathers blackish brown, the four middle feathers entirely brown, the two outermost entirely white, the next two brown with white tips, increasing in extent towards the outer feathers, and extending on the outer webs of the last but two ; wings ashy brown, the median and greater coverts externally edged with ashy white ; primary-coverts dark brown, with conspicuous white bases to the inner webs ; quills dark brown, externally edged with light brown, the secondaries plainly margined with white ; a narrow frontal line and lores dull white, extending backwards over the eye, but not forming a very distinct eyebrow ; in front of the eye a spot of dusky black ; sides of face dull white, the ear-coverts ashy brown ; throat and centre of body and under tail-coverts white, the sides of neck, sides of breast, and flanks ashy brown ; thighs brown ; axillaries light brown ; under wing-coverts whitish, with brown bases ; quills ashy below, with greyish edges to the inner web ; "bill and feet brown ; irides brown" (*Gould*). Total length 4·9 inches, culmen 0·45, wing 3·45, tail 2·2, tarsus 0·65.

Hab. Australia : Port Denison, Wide-Bay district, Richmond and Clarence-River districts, New South Wales, Victoria, South Australia and interior district (*Ramsay*).

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| a. Ad. sk. | Australia. | Linnean Society [P]. (Type of <i>M. macroptera</i> .) |
| b. Ad. sk. | New South Wales. | R. B. Sharpe, Esq. [P.] |
| c. Ad. sk. | South Australia. | Sir George Grey [P.] |
| d. Ad. st. | Australia. | Sir T. Mitchell [P.] |
| e. Ad. sk. | Australia. | R. Brown, Esq. [P.] |

2. *Microeca assimilis*.

Microeca assimilis, *Gould, P. Z. S.* 1840, p. 172 ; *id. B. Austr. Intr.* p. xl ; *Bp. Consp.* i. p. 321 ; *Reichenb. Vög. Neuhol.* p. 287 ; *Cab. Mus. Hein.* Th. i. p. 52 ; *Gould, Handb. B. Austr.* i. p. 260 ; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. pt. 2, p. 182.

Myiagra assimilis, *Gray, Gen. B.* i. p. 261.

Muscicapa assimilis, *Gray, Hand-l. B.* i. p. 324, no. 4856.

Adult male. General colour above earthy brown, the upper tail-coverts darker sepia-brown ; wing-coverts brown, the quills brown, edged narrowly with lighter brown, the secondaries with dull white ; four centre tail-feathers dark brown, the next two on each side tipped with white on the inner web, the white tip gradually increasing in size towards the outermost, which has also the outer web white ; a narrow frontal line of dull white drawn backwards over the fore part of the eye ; in front of the eye a dusky spot ; ear-coverts brown, with a slight dash of rufous ; cheeks, throat, abdomen, and under tail-coverts white, the chest slightly shaded with light brown, the sides of the body more distinctly light earthy brown ; axillaries pale rusty brown ; under wing-coverts whitish brown, with dusky bases ; "bill and feet blackish brown ; iris reddish brown" (*Gould*). Total length 4·5 inches, culmen 0·45, wing 3·35, tail 2·25, tarsus 0·55.

Adult female. Similar to the male. Total length 4·5 inches, wing 3·2, tail 2, tarsus 0·6.

A specimen collected by Mr. Elsey differs slightly in having the wing smaller (3 inches), and in the primary-coverts having triangular spots of white at the tip; the latter I believe to be remains of immature plumage.

Hab. Western Australia: Gulf of Carpentaria.

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|---------------|--|-------------------------|
| a. ♂ ad. sk. | Moore's River, Western Australia, Aug. 29, 1842. | J. Gould, Esq. [C.]. |
| b. ♀ ad. sk. | Near the Salt River, Western Australia, Oct. 17, 1839. | J. Gould, Esq. [C.]. |
| c. ♂ imm. sk. | N.W. Australia. | J. R. Elsey, Esq. [P.]. |

3. *Microeca flavovirescens.*

Microeca ? *flavovirescens*, Gray, *P. Z. S.* 1858, p. 178 (type examined); *id.* *Cat. B. New Guinea*, p. 30.

Microeca flavovirescens, Finsch, *New-Guinea*, p. 170; *Salvad. & D'Albert. Ann. Mus. Civic. Genov.* vii. p. 817; *Salvad. op. cit.* viii. p. 398, x. p. 134.

Muscicapa flavovirescens, Gray, *Hand-l. B.* i. p. 324, no. 4858.

Adult male. General colour above dull olive-green, a little duller on the head; least wing-coverts like the back, the median and greater series, as well as the quills, brown, externally washed with the same olive-green as the back; the edgings to the quills rather more yellow; tail-feathers brown, with olivaceous yellow margins; lores obscure dusky white: round the eye a circle of pale yellow feathers; ear-coverts and sides of face generally olive-green, with narrow whitish shaft-lines to the former; cheeks dusky olive washed with yellow; under surface of body pale lemon-yellow, brighter on the centre of the chest and on the abdomen, the under tail-coverts paler and more white; sides of the body olive-green, rather yellower on the flanks; under wing-coverts and axillaries pale yellow, the lower series greyish brown; the inner lining of the quills greyish brown with ashy edges along the inner webs; "bill dusky horn-brown, the lower mandible yellow; feet yellow; iris black" (*D'Alberty*). Total length 6 inches, culmen 0·6, wing 3·15, tail 2·45, tarsus 0·6.

Adult female. Similar to the male, but smaller. Total length 6 inches, culmen 0·55, wing 3·1, tail 2·5, tarsus 0·6.

Hab. Aru Islands, Mysol, Waigiou, New Guinea.

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| a. ♂ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. (Type of species.) |
| b. ♀ ad., c. ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.] |
| d, e. Ad. sk. | Mysol. | A. R. Wallace, Esq. [C.] |
| f. ♂ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.] |
| g. ♀ ad. sk. | Waigiou. | A. R. Wallace, Esq. [C.] |
| h, i. Ad. sk. | Arfak Mountains, N.W. New Guinea. | M. Laglaize [C.]. |

4. *Microeca flavigaster*.

Microeca flavigaster, Gould, *P. Z. S.* 1842, p. 132; *id. B. Austr.* folio, ii. pl. 94; Jacq. et Puch. *Voy. Pôle Sud*, texte, iii. p. 79; Bp. *Consp.* i. p. 321; Reichenb. *Vög. Neuhol.* p. 96, no. 408; Gould, *Handb. B. Austr.* i. p. 261; Finsch, *Neu-Guinea*, p. 170; Ramsay, *P. Z. S.* 1875, p. 586; Salvad. & D'Albert. *Ann. Mus. Civic. Genov.* vii. p. 817; Salvad. *op. cit.* viii. p. 398, ix. p. 23; Sharpe, *Journ. Linn. Soc.* xiii. p. 498; Ramsay, *Pr. Linn. Soc. N. S. W.* ii. pt. 2, p. 182.
Gobe-mouche verdin, *Homb. et Jacq. Voy. Pôle Sud, Atlas*, pl. xii. bis, fig. 5.

Myiagra flavigaster, Gray, *Gen. B.* i. p. 261.

Muscicapa flavigaster, Gray, *Hand-l. B.* i. p. 324, no. 4857.

Microeca læta, Salvad. *Ann. Mus. Civic. Genov.* xii. p. 323 (type examined).

Adult. Above olivaceous brown, a little more dusky on the head; wings rather browner than the back, the feathers narrowly margined with olivaceous; upper tail-coverts and tail brown, externally edged with olivaceous, the three outer feathers obscurely tipped with white on the inner web; plumes in front of the eye dull whitish; feathers round the eye dusky white; ear-coverts dull brown, with narrow hair-like shaft-lines of white; cheeks and throat dull white; rest of under surface yellow, paler on the under tail-coverts; sides of the upper breast dull brown; lower abdomen and vent white; under wing-coverts yellow; lower surface of quills ashy brown, with yellowish-white edgings along their inner webs; bill dark horn-brown in skin, paler at the base of the lower mandible; "bill dusky above, yellowish underneath; feet dull ashy; iris black;" (*D'Albertis*); "feet blackish grey; iris blackish brown" (*Gould*). Total length 4·6 inches, culmen 0·45, wing 2·75, tail 2, tarsus 0·55.

Young. Browner, and mottled with triangular tips of dull white to the feathers, very distinct on the wing-coverts (*Mus. Genov.*). Fresh moulted young birds would seem to be much yellower below than adults.

Obs. Count Salvadori kindly lent me the type of his *Microeca læta*, but I could not separate the species from *M. flavigaster*.

Hab. Northern Australia and New Guinea.

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| a. Ad. sk. | Port Essington. | J. B. Jukes, Esq. [P.]. |
| b. Ad. sk. | Port Moresby, S.E. New Guinea. | O. C. Stone, Esq. [C.]. |
| c. Ad. sk. | Port Essington. | |

3. *ALSEONAX*.

Type.

Alseonax, *Cabanis, Mus. Hein.* Th. i. p. 52 (1850)..... *A. adusta*.

Range. Africa; India and Ceylon; Burmese countries, ranging north through China and Japan; Malayan peninsula and islands.

Key to the Species.

- a. Upper tail-coverts like the back; quills edged with grey or whitish, not rufous.
 - a'. Upper surface of body dusky brown or ashy brown, not bluish.
 - a". Bill conspicuously yellow on the under mandible, the tip dark brown; sides of body white shaded with brown..... *latirostris*, p. 127.
 - b". Bill dark brown, with never more than a slight shade of lighter colour at the base of the lower mandible; sides of body entirely ashy brown *adusta*, p. 129.
 - b'. Upper surface of body dark slaty or bluish grey.
 - c". Larger; wing 2·45 inches: tail brown *comitata*, p. 130.
 - d". Smaller; wing 2·22 inches.
 - e". Feet and legs yellow; upper surface dark bluish slate-colour *epulata*, p. 131.
 - d". Feet dark brown; upper surface ashy grey, with dark brown centres to feathers of crown *fantisicensis*, p. 131.
- b. Upper tail-coverts rufous, contrasting with the back; secondaries edged with pale rufous *mutui*, p. 132.

1. *Alseonax latirostris*.

- Muscicapa grisola*, var. *daurica*, *Pall. Zoogr. Rosso-Asiat.* i. p. 461.
Muscicapa latirostris, *Rafgl. Tr. Linn. Soc.* xiii. p. 312; *Salvin, Cat. Strickl. Coll.* p. 136.
Muscicapa poonensis, *Sykes, P. Z. S.* 1832, p. 85; *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 90.
Hemichelidon latirostris, *Gray, Gen. B.* i. p. 262; *Blyth, Cat. B. Mus. A. S. B.* p. 175; *Bp. Consp.* i. p. 321; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 137; *Moore, P. Z. S.* 1854, p. 270; *Swinhoe, Ibis*, 1866, p. 57; *Gray, Hand-l. B.* i. p. 324, no. 4864.
Butalis terricolor, *Blyth, J. A. S. B.* xvi. p. 120; *id. Cat. B. Mus. A. S. B.* p. 175; *Bp. Consp.* i. p. 318.
Butalis latirostris, *Blyth, J. A. S. B.* xvi. p. 121; *Layard, Ann. Nat. Hist.* 1854, xiii. p. 127; *Swinh. P. Z. S.* 1871, p. 379; *Blyth & Wald. B. Burm.* p. 104; *Dybowski, J. f. O.* 1872, p. 447; *Taczan. Bull. Soc. Zool. France*, i. p. 168; *David & Oustal. Ois. Chine*, p. 123; *Tweedd. P. Z. S.* 1878, p. 284.
Muscicapa cinereo-alba, *Temm. & Schl. Faun. Japon. Aves*, p. 42, pl. 15; *Schrenk, Reis. Amurl.* p. 379; *Radde, Reis. Sibir.* ii. p. 273.
Alseonax latirostris, *Cab. Mus. Hein. Th.* i. p. 53; *Jerd. B. Ind.* i. p. 459; *Holdsw. P. Z. S.* 1872, p. 411; *Hume & Henders, Lahore to Yark.* p. 185, pl. v.; *Satrad. Ucc. Born.* p. 130; *Hume, Str. F.* 1873, p. 219; *id. Str. F.* 1874, p. 475; *Brooks, Str. F.* 1875, p. 276, et 1876, p. 273; *Fairb. op. cit.* p. 254; *Hume, op. cit.* p. 396; *id. & Davison, Str. F.* 1878, p. 227.
Alseonax terricolor, *Cab. Mus. Hein. Th.* i. p. 52, note.
Butalis cinereo-alba, *Bp. Consp.* i. p. 318.
Butalis pondiceriana, *Bp. Consp.* i. p. 318 (ex *Licht. in Mus. Berol.*).
Muscicapa pondiceriana, *Middlend. Sibir. Reis. Vög.* p. 188.
Hemichelidon terricolor, *Gray, Hand-l. B.* i. p. 324, no. 4865.
Alseonax cinereoalba, *Brooks, Str. F.* 1875, p. 276.

Adult male. General colour above ashy brown, the wing-coverts rather darker than the back, and the greater series edged with rusty brown; primary-coverts sooty brown; wing-coverts dark brown, the secondaries edged with rusty, paler at the tips; tail brown, like the back; lores and a ring of feathers round the eye buffy white; in front of the eye a dusky spot; ear-coverts and cheeks brown; throat and rest of under surface of body pure white, the sides of the neck, breast, and sides of body suffused with brown; under wing-coverts and axillaries light fawn-brown; quills dark brown below, light fawn-colour along the inner web; "bill black, the lower mandible yellowish at base; legs dark vandyke-brown; iris chocolate" (*A. Everett*). Total length 4·8 inches, culmen 0·45, wing 2·75, tail 1·95, tarsus 0·55.

Mr. Hume observes (*Str. F.* 1873, p. 219):—"The colours of the soft parts vary somewhat. In some specimens the legs, feet, and upper mandible are brown, in some black, or nearly so; in all the gape, inside of the mouth, and lower mandible are yellow, paler and purer in some, more orange in others, and the tip of the lower mandible is always brownish."

Young. Differs from the adult in being flammulated above, the feathers having large ovate spots of ochraceous buff in their centres, the wing-coverts and quills being edged with rufous-buff; sides of face light brown streaked with buff; under surface of body white, mottled with dusky brown edgings to the feathers; upper tail-coverts and edges to the tail-feathers rufous.

Obs. Considerable variation takes place in this species, but only as regards the colour of the brown upper surface, which differs in intensity, and as regards the brown on the chest; this varies in extent, being sometimes broad, sometimes narrow, and occasionally dissolved into obscure streaks. The edges to the wing-coverts and quills are often rufescent, and this is probably a sign of immaturity. I cannot see the least reason for separating *Alseonax terricolor* of Hodgson, notwithstanding Mr. Brooks's opinion that they constitute distinct species; and I have had the opportunity of comparing with the Museum series two specimens belonging to Mr. Seeböhm, and determined as *A. terricolor* by Mr. Brooks himself, to say nothing of a large series of the typical specimens from Nepal.

Hab. Japan and Eastern Siberia, throughout China, the Burmese countries, India and Ceylon, Java, Sumatra, Borneo, and the Philippines.

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|---|--------------------------|---------------------------------------|
| <i>a.</i> Ad. sk. | China. | Mr. Fortune [C.]. |
| <i>b.</i> ♂ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>c-f.</i> Ad.; <i>g, h, i.</i> Juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>k.</i> Ad. sk. | Deccan (<i>Sykes</i>). | Secretary of State for India [P.]. |
| <i>l, m.</i> Ad. sk. | Ceylon. | Hugh Cuming, Esq. [C.]. |
| <i>n.</i> Ad. sk. | Ceylon. | Purchased. |
| <i>o.</i> Ad. sk. | Tenasserim. | J. C. D. Packman, Esq. [P.]. |

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| <i>p, q.</i> Ad. sk. | Port Blair, S. Andamans, Feb. 1874 (<i>Wimberley</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>r.</i> Ad., <i>s.</i> Juv. sk. | Saigon, Cochinchina. | M. E. Pierre [P.]. |
| <i>t.</i> ♀ ad. sk. | Java. | Purchased. |
| <i>u, v.</i> Ad. sk. | N.W. Borneo. | Hugh Low, Esq. [C.]. |
| <i>w.</i> Ad., <i>c.</i> Juv. sk. | Sarawak. | Henry Everett, Esq. [C.]. |
| <i>y.</i> ♂ ad. sk. | Kuching, Sarawak, Oct. 8, 1874. | Alfred Everett, Esq. [C.]. |

2. *Alseonax adusta*.*

L'Ondulé, *Levaill. Ois. d'Afr.* iv. p. 24, pl. 156; *Sundev. Crit. om Levaill.* p. 42.

Muscicapa undulata (*nec* *Gm.*), *Bonn. et Vicill. Enc. Méth.* ii. p. 813; *Gray, Hand-l. B.* i. p. 323, no. 4838; *Sharpe, ed. Layard, B. S. Afr.* p. 350.

Butalis adusta, *Boie, Isis*, 1828, p. 318; *Bp. Consp.* i. p. 318; *Shelley, Ibis*, 1875, p. 75.

Muscicapa fuscula, *Sundev. Afr. K. Vet.-Akad.* 1850, p. 105; *Grill, Zool. Anteckn.* p. 10; *Layard, B. S. Afr.* p. 148, no. 283; *Finsch & Hartl. Vög. Ostaf.* p. 303, note; *Heugl. Orn. N.O.-Afr.* pp. 436, cxiii.

Alseonax undulata, *Cabanis, Mus. Hein.* Th. i. p. 52.

Butalis undulata, *Sharpe, Cat. Afr. B.* i. p. 42, no. 392.

Adult male. Above ashy brown, the head obscurely mottled by the dark brown centres to some of the feathers of the crown; wings dark brown, the lesser and median wing-coverts edged with ashy brown like the back, the greater series tipped with dull white; primary-coverts uniform dark brown; quills dark brown, with nar-

* By some authors this species has been identified as the *Gobe-mouche de l'île de France* of Montbeillard, but it does not seem to me to be the same bird. The synonymy would be as follows:—

Gobe-mouche de l'île de France, *Month. Hist. Nat. Ois.* iv. p. 527.

Undulated Flycatcher, *Lath. Gen. Syst.* ii. pt. i. p. 333.

Muscicapa undulata, *Gm. Syst. Nat.* i. p. 940.

With the following species I am unacquainted:—

ALSEONAX MINIMA.

Muscicapa minuta, *Heugl. Syst. Uchers.* p. 31.

Muscicapa minima, *Heugl. J. f. O.* 1862, p. 301; *Hartl. u. Finsch, Orn. N.O.-Afr.* p. 303, note; *Heugl. Orn. N.O.-Afr.* p. 435, Taf. xviii. fig. 1.

Muscicapa fuscula, *Finsch, Tr. Z. S.* vii. p. 245.

Very small; above greyish dusky; forehead, lores, eyelids, and belly dull dusky white, the sides of the neck, breast, flanks, and under wing-coverts shaded with the same colour as the back; quills internally towards the base dull buffy white; wing-coverts and tail-coverts externally margined with pale rufous; bill short, depressed, dusky black, bluish flesh-colour at the base; feet bluish black; iris dusky. Total length 4" 3", bill from front 3½", wing 2" 4½", tail 1" 9", tarsus 5½". (*Heuglin*.)

Drs. Finsch and Hartlaub believe that this species is not to be distinguished from *A. adusta*, but, as Dr. von Heuglin remarks, it appears to be much smaller. *Hab.* Abyssinia.

row edgings of ashy brown, the secondaries margined with dull whitish; tail brown, with obscure undulations under certain lights, the feathers edged with lighter brown near the base; lores whitish, extending backwards above the eye, and forming an ill-defined eyebrow; round the eye a ring of whitish feathers; fore part of cheeks ashy brown, mottled with whitish tips to the feathers; ear-coverts uniform ashy brown; throat pure white, with slight ashy mottling on the chin where the bases show through; breast and sides of body ashy brown, with a slight fulvous tinge, the chest streaked with fulvous, the feathers being edged with the latter colour; belly and under tail-coverts white; thighs brown; under wing-coverts light tawny buff, with ashy brown bases to the feathers; lower surface of the quills brown, the inner webs edged with light fulvous brown; "bill and legs black; iris brown" (*T. L. Ayres, MS.*). Total length 4·6 inches, culmen 0·5, wing 2·55, tail 2·05, tarsus 0·6.

Adult female. Not different from the male in colour; "bill black, the under mandible yellowish at base; tarsi and feet dusky; iris dusky hazel" (*P. Barratt, MS.*). Total length 4·8 inches, wing 2·65, tail 2·05, tarsus 0·65.

Hab. South Africa.

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|---------------|---|-----------------------------|
| a. ♂ ad. sk. | Knysna, Dec. 8, 1865 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. |
| b. ♂ ad. sk. | Knysna, Jan. 6, 1866 (<i>C. J. A.</i>). | R. B. Sharpe, Esq. |
| c. ♀ ad. sk. | Knysna, Feb. 7, 1866 (<i>C. J. A.</i>). | R. B. Sharpe, Esq. |
| d. ♂ ad. sk. | Knysna. | C. J. Andersson, Esq. [C.]. |
| e. Ad. sk. | George, Sept. 20, 1870 (<i>H. Atmore</i>). | R. B. Sharpe, Esq. |
| f, g. Ad. sk. | Peri Bush, near Kingwilliamstown. | H. Trevelyan, Esq. [P.]. |
| h. ♀ jun. sk. | Elends Post, May 29, 1873 (<i>T. C. Atmore</i>). | R. B. Sharpe, Esq. |
| i. ♂ ad. sk. | Pine Town, Natal, June 14, 1875 (<i>T. L. Ayres</i>). | R. B. Sharpe, Esq. |
| k. ♀ ad. sk. | Natal. | Dr. Gueinzus [C.]. |
| l. ♀ ad. sk. | Macannac, Nov. 28, 1874. | F. A. Barratt, Esq. [C.]. |

3. *Alseonax comitata*.

Butalis comitata, *Cass. Pr. Philad. Acad.* 1857, p. 25; *Sharpe, Ibis*, 1870, p. 479; *id. Cat. Afr. B.* p. 42, no. 394.

Muscicapa comitata, *Hartl. Orn. W.-Afr.* p. 265, no. 748; *Gray, Hand-l. B.* i. p. 322, no. 4824.

Adult. General colour above dark slate-colour, the wings dark brown, the lesser and median coverts edged with the same slaty grey as the back; tail brown; lores and eyelid white; in front of the eye a blackish spot; sides of face dark slate-colour, the ear-coverts with whitish shaft-lines, the fore part of the cheeks slightly mottled with white; throat dull whitish; breast and sides of body dark slaty grey, the centre of the abdomen dull brownish white, the under tail-coverts dull whitish, ashy brown on the edges; thighs ashy brown; under wing-coverts and axillaries lighter slaty grey

than the breast, with hoary whitish edgings to the feathers; quills dusky brown below, edged with dull whitish along the inner webs. Total length 4·9 inches, culmen 0·45, wing 2·45, tail 2·25, tarsus 0·6.

Hab. Western Africa, Gold Coast to Gaboon.

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| <i>a.</i> Ad. sk. | Gaboon (<i>Du Chaillu</i>). | R. B. Sharpe, Esq. |
| <i>b.</i> Ad. sk. | Gaboon. | Mr. Du Chaillu [C.]. |
| <i>c.</i> Jun. sk. | Ashantee. | J. Gould, Esq. |
| <i>d, e.</i> Ad. sk. | Fantee (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. |
| <i>f.</i> Jun. sk. | Fantee (<i>Aubinn</i>). | R. B. Sharpe, Esq. |
| <i>g.</i> Ad. sk. | Enimill, Wassaw, March 1872 (<i>H. F. Blissett</i>). | R. B. Sharpe, Esq. |

4. *Alseonax epulata*.

Butalis epulata, *Cass. Pr. Philad. Acad.* 1850, p. 326, et 1857, p. 35.
Muscicapa epulata, *Hartl. Orn. W.-Afr.* pp. 96, 276; *Cass. Pr. Philad. Acad.* 1859, p. 51; *Hartl. J. f. O.* 1861, p. 169; *Gray, Hand-l. B. i.* p. 322, no. 4823.

Adult. General colour above dark bluish slate-colour, the head scarcely darker than the back; quills dark brown, the coverts obscurely edged with slate-colour, with which colour the inner secondaries are washed; tail-feathers dark brown, edged obscurely with grey near the base of the outer web and with lighter brown along the inner one; sides of face dark slate-colour like the head, with a slight whitish mottling near the base of the upper mandible; in front of the eye a blackish shade; sides of throat, breast, and sides of body dull bluish slate-colour, the throat and centre of the body white, as also the under tail-coverts, the latter with greyish bases; edge of wing dark brown, the feathers edged with slaty; axillaries white with dusky bases; quills dark brown below, edged with lighter brown along the inner web. Total length 3·6 inches, culmen 0·4, wing 2·15, tail 1·5, tarsus 0·45.

Hab. Gaboon.

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| <i>a.</i> Ad. sk. | Gaboon. | Mr. Du Chaillu [C.]. |
| <i>b.</i> Ad. sk. | Gaboon (<i>Du Chaillu</i>). | R. B. Sharpe, Esq. |

5. *Alseonax fantisiensis*.

Butalis epulata (nec Cass.), *Sharpe, Ibis*, 1870, p. 489; *id. Cat. Afr. B.* p. 42; *id. Ann. & Mag. Nat. Hist.* 1871, viii. p. 234.

Adult. Similar to *A. epulata*, but with a longer wing, though narrower bill; legs dark brown, instead of yellowish; colour of upper surface dark ashy grey, with dark-brown centres to the feathers of the head, producing a mottled appearance; the colour of the upper surface and of the sides of the body is more of a cindery-grey than a dark-bluish grey as in *B. epulata*. Total length 4 inches, culmen 0·4, wing 2·2, tail 1·6, tarsus 0·45.

Young. Above dusky grey, covered with little spots of buff, deeper on the rump and upper tail-coverts, all these spots being margined

with black; cheeks similarly marked; wing-coverts coloured and spotted like the back, but the spots much deeper, almost golden in colour; quills blackish, the secondaries plainly edged with buff; tail blackish, with little buff tips to the feathers; under surface of the body whitish, the flanks and under tail-coverts tinged with buff, the throat and breast presenting a mottled appearance, owing to the feathers being narrowly edged with grey; under wing-coverts white, varied with grey near the edge of the wing; bill black, yellow at the base and gape; feet dark brown. Total length 4·2 inches, culmen 0·45, wing 2·25, tail 1·65, tarsus 0·5.

Hab. Western Africa, Gold-Coast districts and Gaboon.

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|-------------|---|----------------------|
| a. Ad. sk. | Fantee (<i>A. Swazzy</i>). | R. B. Sharpe, Esq. |
| b. Juv. sk. | Between Denkera and Ashantee, April 20, 1871 (<i>Auburn</i>). | R. B. Sharpe, Esq. |
| c. Ad. sk. | Wassaw, March 1872 (<i>H. F. Blissett</i>). | R. B. Sharpe, Esq. |
| d. Ad. sk. | Gaboon. | Mr. Du Chaillu [C.]. |

6. *Alseonax muttui*.

Butalis muttui, *Layard, Ann. N. H.* 1854, xiii. p. 127.

Alseonax terricolor (*nec Hodys.*), *Holdsw. P. Z. S.* 1872, p. 441; *Legge, Str. F.* 1875, p. 366.

Alseonax flavipes, *Legge, Str. F.* 1875, p. 367.

Adult female. General colour above ochraceous brown, duller and more shaded with olive on the head and neck; the upper tail-coverts rufous; tail-feathers brown, narrowly edged with rufous-brown on the outer web and with fulvous on the inner one; wing-coverts dark brown, externally ochraceous brown like the back; greater wing-coverts and quills dark sepia-brown, externally edged with rufous, the primaries only narrowly marginéd; primary-coverts entirely sepia-brown; lores, feathers in front of the eye and round the latter dull white; ear-coverts and sides of face olive-brown like the head, the former with obscure whitish shaft-lines; cheeks light ochre-brown, the fore part mottled with white, the malar line slightly darker brown, very indistinct; throat white, as well as the centre of the breast and abdomen; the fore neck and sides of breast light ochraceous brown, the flanks pale fawn-buff, as also the thighs; under tail-coverts whitish, shaded at their tips with fulvous; under wing-coverts and axillaries orange-buff or fawn-colour; quills dull brown below, edged with fawn-colour along the inner webs; "bill blackish brown, the lower one fleshy yellow, pale brown at tip; legs and feet pale yellow; iris reddish brown" (*Legge*). Total length 5·2 inches, culmen 0·6, wing 2·85, tail 2·25, tarsus 0·55.

Hab. Ceylon.

- | | | |
|--------------|-----------------------|------------------------------|
| a. ♀ ad. sk. | Ikkade-Barawe Forest, | Capt. W. Vincent Legge [P.]. |
| | Feb. 13, 1877. | |

B. i. p. 329; *Finsch & Hartl. Vög. Ostafri.* p. 313; *Sharpe, Cat. Afr. B.* p. 44.

Platystira thoracica, *Licht. Nomencl.* p. 20.

Platystira strepitans, *Licht. t. c.* p. 20.

Pachyprora capensis, *Sunder. Av. Meth. Tent.* p. 24.

Adult male. Entire head deep ashy grey, with a black line drawn from the forehead on each side, enclosing the eye and ear-coverts, and extending down on each side of the neck so as to form a border to the grey head; the rest of the back olive-brown, the rump irregularly mottled with white, which shows more conspicuously on the disarrangement of the feathers; upper tail-coverts glossy greenish black, with a white tip; least wing-coverts olive-brown like the back, the greater ones darker, the median and the inner greater coverts bright orange-rufous; quills dark brown, the inner secondaries tipped with white, the outer secondaries broadly edged with orange-rufous, continuous with the coverts, which are similarly coloured; tail black, with a very slight greenish gloss, the feathers more or less broadly tipped with white, the outer feathers margined externally with a broad white line; entire throat and sides of neck pure white; fore part of chest black, forming a very broad pectoral band, slightly tinged on the side with olive-brown, some of the lower feathers slightly margined with white; centre of belly and under tail-coverts white; sides of body bright orange-rufous; tibial plumes blackish; under wing-coverts white, the outermost small coverts brown; bill and feet black; iris yellow. Total length 3.9 inches, culmen 0.5, wing 2.2, tail 1.65, tarsus 0.65.

Adult female. Forehead and eyebrow whitish, but otherwise very similar to the male on the upper parts. Underneath white, with a patch of orange-rufous occupying nearly the whole of the throat; upper part of breast and sides of body rich orange-rufous, deepening into rust-colour on the pectoral band.

Hab. South Africa.

| | | |
|---|---|---------------------------|
| <i>a.</i> ♂ ad. st. | Cape Colony. | |
| <i>b.</i> ♂ ad. st. | Cape Colony. | Sir A. Smith [C.]. |
| <i>c, d.</i> ♂ ♀ ad. sk. | Knysna, Jan. 3, 1866 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. |
| <i>e, f.</i> ♂ ad., <i>g.</i> ♀ ad. sk. | Near Kingwilliams- town. | Lieut. H. Trevelyan [P.]. |
| <i>h.</i> ♀ ad. sk. | Grahamstown (<i>E. L.</i> <i>Layard</i>). | R. B. Sharpe, Esq. |
| <i>i.</i> ♂ ad., <i>k.</i> ♀ juv. sk. | Grahamstown (<i>T. C.</i> <i>Atmore</i>). | R. B. Sharpe, Esq. |
| <i>l.</i> ♂ ad. sk. | Swellendam (<i>Cairn- cross</i>). | R. B. Sharpe, Esq. |
| <i>m.</i> ♂ ad. sk. | Natal. | Thomas Ayres, Esq. [C.]. |
| <i>n, o.</i> ♂ ♀ ad. sk. | Macamac, July 1874. | F. A. Barratt, Esq. [C.]. |

2. *Batis senegalensis*.

Le Gobe-mouche à poitrine rousse du Sénégal, *Briss. Orn.* ii. p. 374, pl. 37. fig. 2; *Buff. Pl. Enl.* v. pl. 567. fig. 1, = ♀.

Le Gobe-mouche à poitrine noire du Sénégal, *Briss. Orn.* ii. p. 375, pl. 38. fig. 3; *Buff. Pl. Enl.* v. pl. 567. fig. 2, = ♂.

Muscicapa senegalensis, *Linm. S. N.* i. p. 327, ♂ ♀.

Le Gobe-mouche à bandeau blanc du Sénégal, *Buff. Hist. Nat. Ois.* p. 528, ♂ ♀.

Senegal Flycatcher, cum var. A, *Lath. Gen. Syn.* ii. pt. i. pp. 328, 329.

Platyrhynchus velatus, *Bonn. et Vieill. Enc. Méth.* ii. p. 385.

Muscylvia senegalensis, *Less. Compl. Buff.* viii. p. 386.

Platystira succincta, *Licht. Nomencl.* p. 20.

Platystira senegalensis, *Hartl. Orn. W.-Afr.* p. 93; *Gray, Hand-l. B.*

i. p. 329; *Hengl. Orn. N.O.-Afr.* i. p. 447; *Finsch & Hartl. Vög.*

Ostaf. p. 317; *Sharpe, Ibis*, 1870, p. 480; *id. Cat. Afr. B.*

p. 43.

Batis senegalensis, *Sharpe, Ibis*, 1873, p. 173; *id. P. Z. S.* 1873, p. 71;

id. & Bouvier, Bull. Soc. Zool. France, 1877, p. 479.

Adult male. Crown of the head and nape dusky greyish black; forehead and eyebrow white, produced backwards so as to form a border to the crown, and joining on the nape, forming a conspicuous white nuchal spot; lores and sides of the face, including the eye and the ear-coverts, glossy black, extending down each side of the neck to the limits of the white nuchal patch; back greyish, with the slightest tinge of ashy brown on the interscapular region, the white bases to the scapulars and rump showing through and producing a slightly mottled appearance; upper tail-coverts glossy black; wing-coverts black, the median and inner greater ones broadly tipped with white, so as to form a conspicuous alar bar; quills brown, the secondaries darker and more inclining to blackish, the outer ones bordered with white, forming a narrow white line continuous with the alar bar above mentioned; tail-feathers black, obsoletely tipped with white, the two outermost feathers broadly bordered and tipped with white; under surface of body white, with a broad pectoral band of glossy blue-black feathers, the flanks also mottled with black; under wing-coverts black, the lower ones and the inner lining of the quills white; bill and feet black. Total length 3·8 inches, culmen 0·5, wing 2·2, tail 1·6, tarsus 0·65.

Adult female. Differs from the male chiefly in having the pectoral band deep chestnut, instead of black; a slight tinge of rusty colour is also apparent below the nuchal spot.

Young. Immature birds generally have the wing-coverts tinged with rusty. Young males at first resemble the old female, and afterwards gradually assume the black band on the breast. A specimen from Casamance in the collection resembles the adult male, except in having the back clear brownish grey, with a decided fulvous tinge on the interscapular region. Another bird, still younger, in the Museum, is olive-brown above, darker on the head, where it is beginning to get black; all the black parts of the plumage are much tinged with brown, and the white markings obscured by a wash of pale rusty fulvous; the outer tail-feather is obliquely white towards the tip.

Hab. Western Africa, from Senegambia to the Congo; N.E. Africa and Eastern Africa.

| | | |
|-------------------|---|--------------------------|
| a, b. ♀ ad. sk. | West Africa. | L. Fraser, Esq. [C.]. |
| c. Juv. sk. | River Gambia. | |
| d. ♂ imm. sk. | Casamance. | R. B. Sharpe, Esq. |
| e. ♂ ad. sk. | River Volta, August 1870 (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. |
| f. ♂ ad. sk. | Accra (<i>J. Smith</i>). | R. B. Sharpe, Esq. |
| g. ♀ ad. sk. | Landana, Congo. | MM. Lucan & Petit [P.]. |
| h, i. ♂ ♀ ad. st. | Sennaar. | Purchased. |
| k. ♂ ad. sk. | Mombas, E. Africa (<i>Wakefield</i>). | R. B. Sharpe, Esq. [P.]. |

3. *Batis orientalis*.

Platystira pririt, *Blanf. Geol. & Zool. Abyss.* p. 345; *Finsch, Tr. Z. S.* vii. p. 247.

Platystira affinis, *Finsch, Tr. Z. S.* vii. p. 315.

Platystira orientalis, *Heugl. Orn. N.O.-Afr.* i. p. 449.

Batis orientalis, *Sharpe, Ibis*, 1873, p. 165; *Antin. & Salvad. Viagg. Bogos*, p. 75.

Adult male. Crown of the head and back grey, more or less clear, but not blackish; a broad white eyebrow extending backwards till it joins the nape, forming a nuchal spot; sides of face from base of bill, enclosing the eye and the ear-coverts, black, extending on each side of the nuchal spot; back grey, the outer scapulars black, with concealed white bases, the rump also slightly mottled with white, where the bases to the feathers show through; upper tail-coverts glossy black; wing-coverts black, the median and inner greater coverts broadly tipped with white; quills greyish black, the primaries narrowly edged with whitish, the outer secondaries very broadly bordered with white; tail-feathers deep black, slightly tipped with white, the two outer ones also broadly bordered with white for nearly a quarter of their length; under surface of body white, with a broad pectoral band of glossy blue-black, the flanks sparingly streaked with black; tibial plumes black; under wing-coverts black, the tips of the lower ones and inner linings of quills white; bill and feet black; iris yellow. Total length 4 inches, culmen 0.5, wing 2.05, tail 1.65, tarsus 0.65.

Adult female. Resembles the male, but has the pectoral band chestnut instead of black.

Young female. Similar to the adult, but having the white eyebrow, the nuchal spot, and margins of the wing-coverts and quills tipped with rust-colour.

Hab. North-east Africa.

| | | |
|--------------|---------------------------------------|----------------------------|
| a. ♂ ad. sk. | Near Magen, Feb. 18, 1868. | W. T. Blanford, Esq. [P.]. |
| b. ♀ ad. sk. | Ailat, Samhar, June 28, 1868. | W. T. Blanford, Esq. [P.]. |
| c. ♂ ad. sk. | Abyssinia, on the road to Magdala. | Colonel Sturt [P.]. |
| d. ♂ ad. sk. | Abyssinia (<i>W. Jesse</i>). | R. B. Sharpe, Esq. |

- e. Juv. sk. Waliko, July 27, R. B. Sharpe, Esq.
1868 (*W. Jesse*).
f, g. ♂ ad.; h, i. ♀ ad. sk. Achor, Bogos Land R. B. Sharpe, Esq.
(*Esler*).

4. *Batis minulla*.

Platystira minulla, *Bocage, Journ. Lisb.* 1874, p. 37.
Batis minulla, *Sharpe, ed. Layard B. S. Afr.* p. 350; *id. & Bouvier*,
Bull. Soc. Zool. France, 1876, p. 308; *Bocage, Orn. Angola*, p. 199,
tab. iii.

Adult male (type of species). Upper surface of body dark grey, the nape with a white patch; scapulars, lower back, and rump mottled with white subterminal spots to the feathers; upper tail-coverts and tail black, the penultimate feather narrowly edged with white, the outermost rectrix white on the outer web and at the tip; wings black, the least coverts very narrowly edged with white, the greater series very broadly tipped, especially the innermost, which are white for the terminal half, the inner secondaries also edged narrowly with white, forming a thin longitudinal line down the wing; lores whitish, giving the appearance of a narrow frontal line; feathers between the bill and the eye as well as the sides of the face and ear-coverts black; a line of black feathers drawn down the sides of the neck on each side of the white nuchal spot; cheeks, sides of neck, and under parts pure white, the sides of the body mottled with greyish black; across the chest a broad band of glossy black; thighs black; under wing-coverts black, tipped with white, the axillaries entirely white; bill and feet black; iris bright yellow. Total length 4.2 inches, culmen 0.55, wing 2.18, tail 1.6, tarsus 0.65. (*Mus. Lisbon.*)

Adult female. Similar to the male, but distinguished by a chestnut pectoral band instead of a black one. Total length 4 inches, culmen 0.5, wing 2.05, tail 1.6, tarsus 0.65. (*Mus. Lisbon.*)

Hab. Angola and the Congo district.

- a. ♂ ad. sk. Iwindo, Congo. MM. Lucan and Petit [C.].

5. *Batis molitor*.

Muscicapa molitor, *Hahn u. Küster, Vög. aus Asien* &c. Lief. xx. Taf. 3.

Platysteira pririt (*nec V.*), *Cab. Mus. Hein.* Th. i. p. 59; *Grill, Zool. Anteckn.* p. 26; *Gurney, Ibis*, 1860, p. 210; *Hartl. Orn. Madag.* p. 45; *Gurney, Ibis*, 1862, p. 156; *Kirk, Ibis*, 1864, p. 319; *Schl. & Poll. Faun. Madag.* p. xiv; *Gray, Hand-l. B.* i. p. 329; *Finsch & Hartl. Vög. Ostfr.* p. 314; *Sharpe, Cat. Afr. B.* p. 44; *Gurney, in Anderss. B. Dam. Ld.* p. 131.

Platystira melanoleuca, *Licht. Nomencl.* p. 20.

Platystira molitor, *Licht. l. c.* p. 20; *Bocage, Journ. Lisb.* 1875, pp. 36, 55.

Batis molitor, *Sharpe, Ibis*, 1873, p. 166; *Buckley, Ibis*, 1874, p. 375; *Shelley, Ibis*, 1875, p. 75; *Sharpe, ed. Layard, B. S. Afr.* p. 348, pl. x. fig. 1; *Bocage, Orn. Angola*, p. 198.

Adult male. Above dull bluish grey, the nape whitish, and the rump also mottled with white; a narrow line from the base of the bill over the eye, running as far as the hinder part of the eye, but not joining the nape, white; lores, feathers above and below the eye, ear-coverts, and sides of the upper neck deep black, extending down the back to the limit of the nuchal spot: wing-coverts and scapulars black, the least coverts slightly margined with whitish, the median and inner greater ones broadly tipped with white, forming a conspicuous alar bar; quills dark brown, very narrowly edged with whitish, the secondaries black, more broadly margined, so as to form a line continuous with the wing-band: upper tail-coverts and tail black, slightly tipped with white, the penultimate feather a little more broadly, the outermost altogether white on the external web; cheeks, sides of neck, and under surface of the body white, with a broad pectoral band of glossy black: thighs black; flanks also mixed with blackish; under wing-coverts black, the lower ones and those along the bend of the wing white: bill and feet black; iris yellow. Total length 5·3 inches, culmen 0·5, wing 2·5, tail 2·2, tarsus 0·73.

Adult female. Above similar to male, but differing below. Under surface white, sides of body mixed with grey; a patch in the centre of the throat and a pectoral band deep chestnut.

Young. More dingily coloured than the adults, the upper surface being dull ashy brown, mottled with white streaks and tips to the feathers: below, the rufous spot on the throat is apparent, but the chest-band is ashy black, mottled with rufous subterminal spots to all the feathers.

Hab. South Africa.

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|---|--|---------------------------|
| <i>a.</i> ♂ ad.; <i>b.</i> ♂ juv. sk. | South Africa. | R. B. Sharpe, Esq. |
| <i>c.</i> ♂ ad.; <i>d.</i> ♀ juv. sk. | Kingwilliamstown. | Lieut. Anstey [P.]. |
| <i>e.</i> ♀ ad. sk. | Kingwilliamstown, May 21, 1877. | Lieut. H. Trevelyan [P.]. |
| <i>f.</i> ♂ ad.; <i>g, h.</i> ♀ ad. sk. | Eland's Post (T. C. Atmore). | R. B. Sharpe, Esq. |
| <i>i.</i> ♀ ad. sk. | Natal. | Purchased. |
| <i>k.</i> ♂ ad. sk. | Bamangwato, Aug. 23, 1873. | T. F. Buckley, Esq. [P.]. |
| <i>l, m.</i> ♀ ad. sk. | Tete, Zambesi. | Dr. Kirk [C.]. |
| <i>n.</i> ♀ ad. sk. | Shupanga, Zambesi. | Dr. Kirk [C.]. |
| <i>o.</i> ♀ ad. sk. | Zambesi (Dr. Meller). | R. B. Sharpe, Esq. |
| <i>p.</i> ♀ ad. sk. | Ovaquenyama, Da- mara Land, May 25, 1867 (C. J. Andersson). | R. B. Sharpe, Esq. |

6. *Batis pririt.*

Le Gobe-mouche pririt, *Levaill. Ois. d'Afr.* iv. p. 38, pl. 161; *Sundev. Crit. on Levaill.* p. 43.

Muscicapa pririt, *Vieill. N. Diet. d'Hist. Nat.* xxi. p. 486.

Muscipeta senegalensis, *Less. Traité*, p. 385.

Platystira pririt, *Gray, Gen. B.* i. p. 257; *Bp. Consp.* i. p. 322.

Platystira allinis, *Wahlb. Gefe. K. Vet.-Akad. Förl. Stockh.* 1855, p. 214; *Gray, Hand-l. B. i.* p. 329; *Sharpe, Cat. Afr. B.* p. 43; *Gurney in Anderss. B. Dam. Ld.* p. 181; *Hartl. Vög. Madag.* p. 178.

Platystira senegalensis, *Mont. P. Z. S.* 1865, p. 95.

Batis pririt, *Sharpe, Ibis*, 1873, p. 168; *id. ed. Layard, B. S. Afr.* p. 349, pl. x. figs. 2, 3 (♂ ♀); *Bocage, Orn. Angola*, p. 199.

Adult male. Indistinguishable from *B. molitor* in colour, but a little smaller; "iris light lemon-yellow on the inner edge, shading off into greenish grey in the outer circle" (*Andersson*). Wing 2.15.

Adult female. Above clear bluish grey, the rump mottled with white; sides of neck and nuchal spot clear orange-buff; a narrow superciliary line of white from the base of the bill; lores, feathers round the eye, ear-coverts, and sides of upper neck black; wings and tail as in *B. molitor*; throat and entire breast clear orange-buff; abdomen and under tail-coverts white; flanks mixed with blackish; thighs black; bill and feet black. Total length 3.8 inches, culmen 0.5, wing 2.2, tail 1.7, tarsus 0.7.

Hab. South Africa.

| | | |
|--------------------------|---|-----------------------------|
| <i>a, b.</i> ♂ ♀ ad. sk. | Damara Land. | C. J. Andersson, Esq. [C.]. |
| <i>c.</i> ♀ ad. sk. | South Africa. | R. B. Sharpe, Esq. |
| <i>d.</i> ♀ ad. sk. | Colesberg (<i>Ortlepp</i>). | R. B. Sharpe, Esq. |
| <i>e, f.</i> ♂ ad. sk. | Ovaquenyama, Damara Land, June 1867 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. |
| <i>g.</i> ♀ ad. sk. | Otjimbingue, July 7, 1866 (<i>C. J. A.</i>). | R. B. Sharpe, Esq. |
| <i>h, i.</i> ♂ ♀ ad. sk. | Swakop river (<i>C. J. A.</i>). | R. B. Sharpe, Esq. |
| <i>k.</i> ♀ ad. sk. | West of Tjohis, April 3, 1865 (<i>C. J. A.</i>). | R. B. Sharpe, Esq. |
| <i>l.</i> ♂ ad. sk. | Elephant Vley, Sept. 5, 1859 (<i>C. J. A.</i>). | R. B. Sharpe, Esq. |
| <i>m.</i> ♀ ad. sk. | Benguela. | J. J. Monteiro, Esq. [C.]. |

7. *Batis minima*.

Platystira minima, *J. & E. Ferr. Rev. et Mag. de Zool.* 1855, p. 219; *Hartl. Orn. W.-Afr.* p. 95; *id. J. f. O.* 1861, p. 169; *Gray, Hand-l. B. i.* p. 329.

Batis minima, *Sharpe, Ibis*, 1873, p. 169.

Adult. Above cindery black, the lower back and rump slightly mottled with white; no perceptible nuchal spot; lores white; sides of the face black like the crown; entire throat and sides of neck white; a broad pectoral band of cindery black, rather more ashy in shade; rest of under surface white, the flanks varied with greyish black; under wing-coverts white; wing black, the quills slightly inclining to brown, the median and inner greater coverts white, as also the margins to the inner secondaries, forming a continuous bar of white down the wing; tail black, the outermost feather white along the outer web at the tip, running round on to the inner web, the two next slightly tipped with white; bill black; feet blackish

brown; iris yellow. Total length 3·5 inches, culmen 0·45, wing 1·85, tail 1·3, tarsus 0·5.

Young. Similar to the adult but browner, and having a few of the feathers on the head and back margined with buffy white.

Hab. West Africa; Gaboon.

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|---------------|---------|--------------------|
| a. ♂ ad. sk. | Gaboon. | M. Verreaux. |
| b. ♂ juv. sk. | Gaboon. | R. B. Sharpe, Esq. |

5. DIAPHOROPHYIA.

| | Type. |
|--|---------------------|
| Diaphorophya, <i>Bp. C. R.</i> xxxviii. p. 653 (1854)..... | <i>D. castanea.</i> |
| Myiophila, <i>Hartlaub, Orn. W.-Afr.</i> p. 95 (1857)..... | <i>D. castanea.</i> |
| Agromyias, <i>Heine, J. f. O.</i> 1860, p. 133 | <i>D. concreta.</i> |
| Stiphromyias, <i>Heine, J. f. O.</i> 1860, p. 133 | <i>D. concreta.</i> |



Head and wing of *Diaphorophya castanea* ♂.

Range. Confined to Western Africa.

Key to the Species.

- a. Abdomen white.
 - a'. Round the hind neck a white collar; rump white *castanea* ♂, p. 140.
 - b. No white collar round the hind neck.
 - a'. Upper surface chestnut; head grey; throat chestnut *castanea* ♀, p. 140.
 - b'. Upper surface glossy greenish black, as also the throat; head uniform with the back. . . *blissetti* ♂, p. 141.
- b. Abdomen and entire under surface of body deep orange-chestnut *concreta*, p. 142.

1. *Diaphorophya castanea*.

Platystira castanea, *Fraser, P. Z. S.* 1842, p. 141; *Gray, Gen. B.* i. p. 257; *Allen & Thoms. Exp. Niger*, ii. p. 498; *Fraser, Zool. Typ.* pl. 34. fig. 2; *Bp. Consp.* i. p. 322.

Platystira leucopygialis, *Fraser, P. Z. S.* 1842, p. 142; *Gray, Gen. B.* i. p. 25; *Allen & Thoms. Exp. Niger*, ii. p. 499; *Fraser, Zool. Typ.* pl. 34. fig. 1; *Bp. Consp.* i. p. 322; *Strickl. Contr. Orn.* 1851, p. 163; *J. & E. Verreaux, Rev. et Mag. de Zool.* 1851, p. 309; *id. op. cit.* 1855, p. 418; *Hartl. Orn. W.-Afr.* p. 95; *Cass. Pr. Philad. Acad.* 1859, p. 50; *Hartl. J. f. O.* 1861, p. 169; *Gray, Hand-l. B.* i. p. 329; *Sharpe, Ibis*, 1870, p. 480; *id. P. Z. S.* 1871, pp. 133, 610; *id. Cat. Afr. B.* p. 43; *Reichenow, J. f. O.* 1877, p. 22.

Diaphorophya leucopygialis, *Bp. C. R.* xxxviii. p. 353; *Bocage, Orn. Angola*, p. 201; *Sharpe & Bouvier, Bull. Soc. Zool. France*, 1877, p. 479.

Agromyias leucopygialis, *Heine, J. f. O.* 1861, p. 133.

Diaphorophya castanea, *Sharpe, Ibis*, 1873, p. 172.

Adult male. Crown of head and nape, as far as the centre of the back, and wing-coverts glossy blue-black; cheeks, ear-coverts, scapulars, lower back, and rump pure silky white; quills black, white at the base of inner web, the secondaries very narrowly margined with white externally near the base; upper tail-coverts and tail glossy black; under surface of body entirely pure white, with a broad blue-black band across the breast; under wing-coverts externally black, the lower ones margined with white; axillary tuft white; bill black; feet brown; iris yellow, eye-wattle bright scarlet; "feet brownish lilac; eye-wattle dark lilac; iris brownish red" (*Falkenstein*). Total length 3·4 inches, culmen 0·5, wing 2·3, tail 1, tarsus 0·65.

Adult female Totally different from the male. Above chestnut, the rump greyish, varied with white; head bluish grey; quills brown, externally margined with chestnut; tail blackish; chin white; cheeks, throat, and breast chestnut; a little spot of white under the eye; rest of under surface silky white, the flanks greyish; outer under wing-coverts chestnut; axillary tufts white.

Young male. Chestnut like the old female, but having the head, back, and chest mixed with black, indicative of the adolescent plumage.

Hab. West Africa.

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| <i>a, b.</i> ♂ ♀ ad.; <i>c.</i> ♀ jun. sk. | Clarence, Fernando Po. | L. Fraser, Esq. [C.] (Type of species.) |
| <i>d, e.</i> ♂ ad.; <i>f, g.</i> ♀ ad. sk. | Fantee (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. |
| <i>h.</i> ♂ ad. sk. | Fantee. | R. B. Sharpe, Esq. |
| <i>i.</i> ♂ juv. sk. | Fantee. | R. B. Sharpe, Esq. |
| <i>k, l.</i> ♀ ad. sk. | Cameroons Mountains. Jan. & Feb. 1871 (<i>A.</i> <i>Crossley</i>). | R. B. Sharpe, Esq. |
| <i>m.</i> ♂ ad. sk. | Gaboon. | Purchased. |
| <i>n.</i> ♂ ad. sk. | Inner Angola (<i>Hamilton</i>). | R. B. Sharpe, Esq. |

2. *Diaphorophya blissetti*.

Platystira concreta, *Hartl. J. f. O.* 1861, p. 169.

Diaphorophya blissetti, *Sharpe, Ann. & Mag. N. H.* (4) x. p. 451;
id. Ibis, 1873, p. 173.

Platystira blissetti, *Reichen. J. f. O.* 1875, p. 23.

Adult. Above dark rifle-green, slightly metallic, the tail much brighter and more metallic, the rump-feathers white at the base, showing more plainly when the plumage is disarranged; wing-coverts rifle-green, a little more metallic than the back; quills blackish, externally margined with metallic green, more especially the secondaries; throat rifle-green, slightly metallic; a tuft of feathers occupying the cheeks and sides of the neck bright chestnut; under surface of body white, the flanks streaked with greyish; under wing-coverts black, axillary tuft white; "bill black; feet greyish violet; iris dark brown, with a fine white inner ring; eye-wattles clear blue-grey" (*Reichenow*). Total length 3·5 inches, culmen 0·6, wing 2·15, tail 0·95, tarsus 0·75.

Young. Entirely grey above, the tail with a slight metallic green gloss; underneath white, the cheeks bright orange-rufous, and the fore neck washed with the same colour.

Hab. West Africa; Gold Coast.

- | | | |
|----------------|---|--|
| a. [♀] ad. sk. | Fantee. | A. Swanzy, Esq. [P]. (Type of species.) |
| b. [♂] ad. sk. | Wassaw, March 1872 (<i>H.</i> <i>F. Blissett</i>). | R. B. Sharpe, Esq. |
| c. Juv. sk. | Ashantee. | J. Gould, Esq. |

3. *Diaphorophya concreta*.

Platystira concreta, *Hartl. J. f. O.* 1855, p. 360.

Platystira (*Myiophila*) *concreta*, *Hartl. Orn. W.-Afr.* p. 95.

Stiphromyias concreta, *Heine, J. f. O.* 1860, p. 133.

Myiophila concreta, *Hartl. J. f. O.* 1861, p. 169.

Diaphorophya concreta, *Sharpe, Ibis*, 1873, p. 174.

Adult (type of species). General colour above dark grey with a greenish gloss, the wing-coverts coloured like the back; rump white; quills dusky brown, margined with ashy grey, lighter on the primaries; upper tail-coverts and tail greenish black; lores conspicuously white; in front of the eye a black spot, the feathers below the eye and the ear-coverts black, the latter with a greenish shade; cheeks and throat white, washed with orange; remainder of under surface deep orange-chestnut, the under tail-coverts buff; under wing-coverts and inner lining of the quills white, the quills ashy below. Total length 3.6 inches, culmen 0.55, wing 2.2, tail 0.95, tarsus 0.65. (*Mus. Lugd.*)

Hab. Ashantee.

Obs. I have lately examined the type of this species, and find that it is apparently quite a distinct species, and is not the young of *D. blissetti*, as I imagined it might prove to be when writing my paper on the genus in 1873.

6. BIAS.

Bias, *Lesson, Traité*, p. 385 (1831)..... ^{Type.} *B. musicus*.



Bill and foot of *Bias musicus*.

Range. Confined to Africa.

1. *Bias musicus*.

Platyrhynchos musicus, *Vieill. N. Dict. d'Hist. Nat.* xxvii. p. 15;
Pucher. Rev. Zool. 1846, p. 136; *id. Arch. Mus.* vii. p. 371.

Moucherolle noir et blanc, *Less. Traité*, p. 255.

Myiagra flavipes, *Sicains. Monogr. Flyc.* p. 255; *Gray, Gen. B. i.* p. 261.

Muscicapa musica, *Gray, Gen. B. i.* p. 263.

Bias musicus, *Hartl. Orn. W.-Afr.* p. 92, no. 281; *Cuss. Pr. Philad. Acad.* 1859, p. 50; *Hartl. J. f. O.* 1861, p. 168; *Kirk, Ibis*, 1864, p. 319; *Finsch & Hartl. Vög. Ostaf.* p. 313, tab. iii. figs. 2, 3; *Sharpe, Cat. Afr. B.* p. 43; *id. P. Z. S.* 1871, p. 610; *id. Ibis*, 1871, p. 188; *Shelley & Buckley, Ibis*, 1872, p. 286; *Ussher, Ibis*, 1874, p. 60; *Reichen. J. f. O.* 1875, p. 25; *Bouvier, Cat. Ois. Marche, &c.* p. 19; *Sharpe, ed. Layard B. S. Afr.* p. 337; *id. & Bouvier, Bull. Soc. Zool. Fr. i.* p. 308; *Bocage, Orn. Angola*, p. 189.

Smithornis musica, *Gray, Hand-l. B. i.* p. 324, no. 4871.

Adult male. General colour above glossy rifle-green, the head with a long crest; scapulars and the rump slightly mottled with white subterminal spots to the feathers; lesser and median wing-coverts rifle-green like the back; the greater series and the secondaries black, margined externally with rifle-green; the primaries black, with white bases extending in a band across both webs of all but the two outermost quills, on which this colour is confined to the inner web only; tail black, slightly glossed with rifle-green on the edges of the feathers; sides of face and of neck, throat, and breast glossy rifle-green; rest of under surface white, the flanks mottled with black, with which all the feathers are broadly margined; thighs black; under wing-coverts rifle-green like the breast; "bill black; feet yellowish grey" (*Reichenow*). Total length 6.2 inches, culmen 0.85, wing 3.35, tail 2.05, tarsus 0.5.

Adult female. General colour above chestnut, the tail entirely of the latter colour; all the wing-coverts chestnut like the back, as also the secondaries; primaries black for their terminal half, the basal half chestnut; head crested, blackish; the hinder neck dusky blackish, mottled with chestnut, the margins to the plumes being of this colour; ear-coverts black, slightly washed with chestnut; cheeks and under surface of body dull fawn-buff; the chin and lower abdomen white; the breast, flanks, under wing-coverts, and inner lining of the quills chestnut; the primaries blackish at tip; thighs chestnut. Total length 6 inches, wing 3.3, tail 2.1, tarsus 0.5.

Hab. West Africa and the Zambesi district in South-eastern Africa.

| | | |
|-------------------|--|--------------------------|
| a. ♀ ad. sk. | West Africa. | Purchased. |
| b. ♂ ad. st. | West Africa. | Purchased. |
| c. ♂ ad. sk. | Fantee. | R. B. Sharpe, Esq. |
| d. ♀ ad. sk. | Fantee (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. |
| e. ♂ ad. sk. | Abeokuta (<i>H. Robin</i>). | F. Nicholson, Esq. [P.]. |
| f. ♂ ad. sk. | Cameroons Mountains, Feb. 23, 1871 (<i>A. Crossley</i>). | R. B. Sharpe, Esq. |
| g. ♀ ad. sk. | Gaboon. | Purchased. |
| h. ♂ ad. sk. | Landana, Congo. | MM. Lucan & Petit [C.]. |
| i. ♀ ad. sk. | Nembao, Congo. | MM. Lucan & Petit [C.]. |
| k. ♀ ad. sk. | Zambesi. | Dr. Kirk [C.]. |
| l, m. ♂ ♀ ad. st. | Tete, Zambesi. | Dr. Kirk [C.]. |

7. ARTOMYIAS.

Artomyias, *J. & E. Verr. J. f. O.* 1855, p. 104. Type. *A. fuliginosa.*



Bill of *Artomyias fuliginosa*.

Range. Confined to Western Africa.

Key to the Species.

- a.* Larger: above chocolate-brown; below mottled with dark-brown centres to the feathers *fuliginosa*, p. 144.
b. Smaller: sooty black or dark brown; below uniform greyish brown. *ussheri*, p. 144.

1. *Artomyias fuliginosa*. (Plate III. fig. 1.)

Artomyias fuliginosa, *J. & E. Verr. J. f. O.* 1855, p. 104 (March);
Hartl. Orn. W.-Afr. p. 93; *Cass. Pr. Phil. Acad.* 1859, p. 50;
Hartl. J. f. O. 1861, p. 166; *Bourcier, Cat. Ois. Marche*, &c. p. 19;
Sharpe & Bouvier, Bull. Soc. Zool. France, 1877, p. 479.

Butalis infuscatus, *Cass. Pr. Philad. Acad.* 1855, p. 326 (April).

Muscicapa infuscata, *Hartl. Orn. W.-Afr.* p. 69; *Gray, Hand-l. Bt*
i. p. 324, no. 4832.

Muscicapa fuliginosa, *Gray, Hand-l. B. i.* p. 324, no. 4861.

Adult. General colour above dark chocolate-brown, with slight rufous margins to the feathers of the back, rump, and upper tail-coverts; wing-coverts like the back; quills dark brown, the secondaries narrowly margined with lighter brown; tail dark brown; sides of face chocolate-brown, the cheeks indistinctly margined with fulvous; under surface of the body light fulvous brown, mottled all over with darker brown centres to the feathers, those of the middle abdomen whity brown centred with darker brown, the flanks rather more rufous; under tail-coverts dark brown with a creamy-buff spot at the base, and tipped with whity brown; under wing-coverts brown edged with rufous; quills dusky brown below, with a narrow edging of light rufous to the inner web. Total length 5·2 inches, culmen 0·35, wing 3·2, tail 2·05, tarsus 0·55.

Hab. West Africa from Gaboon to the Congo.

- | | | |
|-------------------|---------|---|
| <i>a.</i> Ad. sk. | Gaboon. | <i>M. Verreaux</i> , 1854. (? Type of species.) |
| <i>b.</i> Ad. sk. | Gaboon. | <i>M. Verreaux</i> . |

2. *Artomyias ussheri*. (Plate III. fig. 2.)

Artomyias ussheri, *Sharpe, Ibis*, 1871, p. 416, et 1872, p. 70; *Ussher, Ibis*, 1874, p. 60.

Artomyias fuliginosa, *Reichen. J. f. O.* 1875, p. 22 (*nce Verr.*).

Adult (type of species). Sooty black; below dark ashy, whitish in the centre of the breast; under tail-coverts conspicuously margined with white; throat and lores whitish; cheeks washed with whitish; greater wing-coverts and quills tipped with whitish; bill and feet blackish, brown in skin; "bill and feet black; iris dark brown" (*Reichenow*). Total length 4·7 inches, culmen 0·3, wing 3·1, tail 2, tarsus 0·5.

Obs. The white tips to the wing-coverts seem to be a sign of immaturity, as the older birds are uniform, and are distinguished by the characters noted in the "Key."

Hab. Fantee country in Western Africa.

| | | |
|------------------|--|--|
| a. Ad. sk. | Abrobonko, Fantee, Jan. 14, 1871 (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. (Type of species.) |
| b. Ad. sk. | Fantee (<i>Ussher</i>). | R. B. Sharpe, Esq. |
| c, d, e. Ad. sk. | Fantee (<i>Aubinn</i>). | R. B. Sharpe, Esq. |

8. PLATYSTIRA.

Platysteira, *Jard. & Selby, Ill. Orn. ii.* Addenda (c. 1830) . . . *Type.*
P. cyanea.

Range. Confined to Africa.

Key to the Species.

- a. With a line of white down the wing, formed by the white greater coverts and the outer webs of some of the inner secondaries.
 - a'. Throat entirely white as also the rest of the under surface, with a broad pectoral collar of glossy black.
 - a". Forehead black like the crown *cyanea* ♂, p. 145.
 - b". Forehead white *albifrons* ♂, p. 147.
 - b. Throat and chest maroon; chin and rest of under surface white *cyanea* ♀, p. 146.
- b. Without any white bar on the wing.
 - c'. Throat and chest glossy greenish black; chin and rest of under surface black *peltata* ♀, p. 147.
 - d'. Throat and under surface white, with a broad pectoral collar of greenish black *peltata* ♂, p. 147.

1. *Platystira cyanea.*

Gobe-mouche à collier du Sénégal, *Briss. Orn. ii.* p. 370, pl. xxxvi. fig. 1 (♀).

Gobe-mouche à gorge rousse du Sénégal, *Buff. Pl. Ent. v.* pl. 567. fig. 3 (♀).

Muscicapa cyanea, *P. L. S. Müller, S. Nat. Suppl.* p. 170; *Cass. Pr. Phil. Acad.* 1864, p. 256.

Collared Flycatcher, *Lath. Gen. Syn. ii.* pt. 1, p. 330 (♀).

Muscicapa melanoptera, *Gm. S. N. i.* p. 939.

Platyrrhynchus collaris, *Hahn u. Küster, Vög. aus Asien, &c. Lief. xx.* Taf. I; *Bonn. et Vieill. Enc. Méth. ii.* p. 836 (♀); *Jard. & Selby, Ill. Orn. i.* pl. ix. fig. 1 (♂).

- Platyrhynchus melanorhynchus*, *Bonn. et Vieuv. Enc. mein.* ii. p. 835 (♂).
Platyrhynchus desmaresti, *Jard. & Selby, Ill. Orn.* i. pl. ix. fig. 2 (♀).
Platystira collaris, *Jard. & Selby, Ill. Orn.* ii. Addenda.
Platystira desmaresti, *id. l. c.*
Platystira lobata, *Savins. B. W. Afr.* ii. p. 49; *id. Monogr. Flycatchers*, p. 187, pl. xxii. (♀); *Jard. Contr. Orn.* 1849, p. 8.
Platystira melanoptera, *Hartl. Orn. W.-Afr.* pp. 93, 272; *Cass. Pr. Philad. Acad.* 1859, p. 50; *Hartl. J. f. O.* 1861, p. 169; *Finsch, J. f. O.* 1869, p. 335; *Sharpe, Ibis*, 1869, p. 189; *id. P. Z. S.* 1870, p. 567; *Shelley & Buckley, Ibis*, 1872, p. 287; *Bocage, Orn. Angola*, p. 195.
Platystira cyanea, *Gray, Hand-l. B.* i. p. 329; *Sharpe, Cat. Afr. B.* p. 44; *id. P. Z. S.* 1871, p. 610; *id. Ibis*, 1873, p. 158; *Sharpe & Bouvier, Bull. Soc. Zool. France*, 1876, p. 45; *Reichenow, J. f. O.* 1877, p. 22.

Adult male. Upper surface deep glossy blue-black, with a very slight greenish shade, inclining to grey on the rump, where the feathers are long and fluffy; the nape indistinctly mottled with whitish, only seen on disarranging the feathers; wing-coverts glossy black like the back, the median ones white, forming a distinct bar across the wing; quills greyish black, the primaries outwardly margined with a narrow whitish line, broader and more conspicuous on the outer secondaries, whence it is continuous with the alar bar described above, the inner secondaries glossed with dark green, one or two of the longer ones just tipped with whitish; upper tail-coverts and tail-feathers glossed with dark rifle-green above, blackish below, all the feathers tipped with white, becoming broader on the outer rectrices, and forming a conspicuous lateral border on the outermost ones; sides of the face like the upper surface of the body; cheeks and entire under surface of the body pure white, with a conspicuous band of blue-black across the breast, the flank-feathers long and silky; tibial plumes black, tipped with white; under wing-coverts as well as the bases of the primaries white, the small outer-coverts glossy blue-black, with a little spot of white below the carpal bend of the wing; bill black; feet (in skin) blackish; wattle over the eye semicircular in form and bright scarlet in life. Total length 4·8 inches, culmen 0·7, wing 2·5, tail 2, tarsus 0·75.

Adult female. Above dusky cinereous, with a slight gloss of greenish, the rump lighter; quills and tail as in the male, the white edgings very broad and conspicuous; chin white; throat and breast deep maroon, bordered below with a narrow band of glossy black; rest of the under surface white; under wing-coverts white, and the wing-lining a little lighter than in the male; eye-wattle a little paler than in the male.

Young male. Resembles the old female in the colour of the upper parts and in having more or less maroon on the throat. As this gradually disappears the black pectoral band makes its appearance; thus specimens are met with in every change of plumage as regards the amount of rufous on the throat. Immature birds, however, may

always be told by the fulvous edgings to the wings and wing-coverts; the underparts are dusky white, the flanks conspicuously greyish.

Hab. Western Africa.

| | | |
|----------------------------|--|--------------------------|
| a. ♀ ad. st. | River Gambia. | |
| b. ♀ ad.; c, d. Juv. sk. | River Gambia. | R. B. Sharpe, Esq. |
| e. ♂ ad. sk. | River Gambia (<i>Layard</i>). | R. B. Sharpe, Esq. |
| f. ♀ ad. sk. | Sierra Leone (<i>L. Fraser</i>). | R. B. Sharpe, Esq. |
| g. ♂ ad.; h. ♂ juv. sk. | Fantee. | R. B. Sharpe, Esq. |
| i. ♂ ad. sk. | Cape Coast (<i>H. F. Blissett</i>). | R. B. Sharpe, Esq. |
| k. ♀ ad. sk. | Elmina, May 1872 (<i>H. F. Blissett</i>). | R. B. Sharpe, Esq. |
| l. ♀ juv. sk. | Yancoomassie (<i>H. F. Blissett</i>). | R. B. Sharpe, Esq. |
| m. ♀ ad. sk. | Connor's Hill, Cape Coast, Nov. 12th, 1870 (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. |
| n. ♂ ad. sk. | Sweet River, Fantee, Dec. 30, 1870 (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. |
| o, p. ♂ ♀ ad.; q. Juv. sk. | Abeokuta (<i>H. Robin</i>). | F. Nicholson, Esq. [P.]. |
| r, s. ♂ ad., ♀ juv. sk. | Cameroons (<i>A. Crossley</i>). | R. B. Sharpe, Esq. |

2. *Platystira albifrons*.

Platystira melanoptera, *Sharpe*, *P. Z. S.* 1869, p. 566 (*nce Gm.*).

Platystira albifrons, *Sharpe*, *Ibis*, 1873, p. 159; *Becage*, *Orn. Angola*, p. 196.

Adult male. Similar to *P. cyanea*, but distinguished by a white line across the forehead. Total length 4·8 inches, culmen 0·6, wing 2·3, tail 2, tarsus 0·75.

Hab. Angola.

| | | |
|------------|---------------------|--|
| a. Ad. sk. | River Loge, Angola. | J. J. Monteiro, Esq. [C.]. (Type of species.) |
| b. Ad. sk. | River Loge. | J. J. Monteiro, Esq. [C.]. |

3. *Platystira peltata*.

Platystira peltata, *Sundev. (Efvs. K. Vet.-Akad. Förh. Stockh.* 1850, p. 105; *Layard*, *B. S. Afr.* p. 142; *Gray*, *Hand-l. B.* i. p. 329; *Sharpe*, *Ibis*, 1873, p. 160, pl. iv. figs. 2, 3; *id. ed. Layard B. S. Afr.* p. 345, no. 333.

Adult male. Above rifle-green, the lower back and rump rather more greyish; wing-coverts rifle-green like the back; quills blackish, the primaries margined with grey, the secondaries with rifle-green; tail black, glossed with greenish above and just tipped with white; sides of face and pectoral band rifle-green; rest of under surface white, the flanks shaded with greyish; axillary tuft rifle-green; under wing-coverts white, the edge of the wing rifle-green; eye-wattle scarlet; bill black; iris yellow. Total length 4·9 inches, culmen 0·6, wing 2·55, tail 2·2, tarsus 0·8.

Adult female. Similar to the male, but more grey on the back;

the entire throat and upper breast dark rifle-green, the chin and a spot on the fore part of the cheeks white.

Hab. South-eastern Africa.

a, b. [♂ ♀] ad. sk.

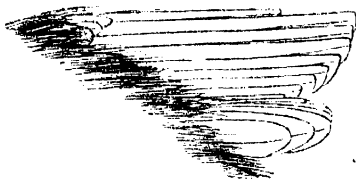
Zambesi.

Dr. Kirk [C.].

9. NEWTONIA.

Newtonia, *Schlegel & Pollen, Faun. Madag.* p. 101
(1868)

Type.
N. brunneicauda.



Wing of *Newtonia brunneicauda*.

Range. Confined to Madagascar.

1. *Newtonia brunneicauda*.

Erythrosterna brunneicauda, *A. Newton, P. Z. S.* 1863, p. 180; *E. Newton, Ibis*, 1863, p. 347.

Newtonia brunneicauda, *Schl. P. Z. S.* 1866, p. 422; *Schl. & Poll. Faun. Madag.* p. 101, pl. 18. fig. 3; *Grandid. Rev. et Mag. de Zool.* 1867, p. 385; *Sharpe, P. Z. S.* 1870, p. 392; *id. Cat. Afr. B.* p. 42, no. 396; *Hartl. Vög. Madag.* p. 170; *Collett, Christ. Vid.-Selsk. Forhandl.* 1877, p. 6.

Pratincola arborea, *Gray, Hand-l. B.* i. p. 228, no. 3280 (*ex Pollen, MSS.*).

Muscicapa brunneicauda, *Gray, Hand-l. B.* i. p. 323, no. 4846.

Saxicola arborea, *Sharpe, P. Z. S.* 1870, p. 392, footnote.

Adult male. General colour above ashy brown, the wing-coverts uniform with the back; primary-coverts dark brown; quills dark brown, the feathers edged with light brown; tail ashy brown, the centre feathers greyer; lores ashy whitish; sides of face and ear-coverts ashy brown like the back, the ear-coverts with whitish shaft-lines; under surface of body white; the lower throat, chest, and flanks pale fulvous, deeper on the latter, which are also shaded with ashy brown internally; under wing-coverts and axillaries light buff, with which colour the quills are edged along the inner web; "iris yellowish white, tarsus greyish slate-colour" (*Grandidier*). Total length 4.1 inches, culmen 0.5, wing 2.15, tail 1.7, tarsus 0.75.

Hab. Madagascar.

a. Ad. sk.
b. ♂ ad. sk.
c. Ad. sk.

Madagascar.
Madagascar.
Madagascar.

Purchased.
Purchased.
Sir Andrew Smith [P.].

10. MUSCICAPA.*

| | Type. |
|--|-------------|
| Muscicapa, <i>Linn. S. N.</i> i. p. 324 (1766) | M. grisola. |
| Butalis, <i>Boie, Isis</i> , 1826, p. 973 | M. grisola. |

* The following species I have not been able to determine:—

MUSCICAPA RIISI.

Muscicapa riisi, *Hartl. Orn. W.-Afr.* p. 96; *Gray, Hand-l. B.* i. p. 322, no. 4826.

Above brownish olive, the head and nape more inclining to dull ashy; tail brownish rufous; upper tail-coverts brownish rufous; shafts of the tail-feathers below buffy white; under surface of body bright pale buffy rufous; centre of the abdomen white; under wing-coverts buff, quills dusky; bill rather long, slightly depressed; feet lead-colour; vibrissæ long. Total length $5\frac{1}{2}$ ", bill $5\frac{2}{3}$ ", wing $2'' 10\frac{1}{2}'''$, tail $2'' 4'''$, tarsus $10'''$. (*Hartlaub.*)

Hab. Aguapim districts of the Gold Coast.

MUSCICAPA MADAGASCARIENSIS.

Muscicapa madagascariensis, *Grandid. Rev. Zool.* 1867, pp. 86, 255; *Gray, Hand-l. B.* i. p. 321, no. 4819.

A species named by M. Grandidier, when travelling in Madagascar, as a supposed new bird, but afterwards suppressed by him. What the species was really synonymous with, has never been stated.

The following five species were described by Scopoli from the descriptions in Sonnerat's Voyage and from Buffon, and have not since been identified. (Cf. *Tweeddale, l. c.*)

MUSCICAPA CÆRULEOCEPHALA.

Le Gobe-mouche à tête bleuâtre de l'isle de Luçon, *Sonn. Voy. Nouv. Guin.* p. 57, pl. 26. no. 1.

Muscicapa cæruleocephala, *Scop. Del. Faun. et Flor. Insubr.* p. 95, no. 106 (ex *Sonn.*); *Walden, Tr. Z. S.* ix. p. 184.

Muscicapa cyanocephala, *Gm. S. N.* i. p. 943, no. 65 (ex *Sonn.*); *v. Martens, J. f. O.* 1866, p. 11.

MUSCICAPA LUZONIENSIS.

Le Gobe-mouche noir de l'isle de Luçon, *Sonn. Voy. Nouv. Guin.* p. 59, pl. 27. fig. 2.

Muscicapa tessacourbe, *Scop. Del. Faun. et Flor. Insubr.* p. 95, no. 108 (ex *Sonn.*).

Muscicapa luzoniensis, *Gm. S. N.* i. p. 942, no. 62 (ex *Sonn.*); *Walden, Tr. Z. S.* ix. p. 184.

MUSCICAPA MACRERA.

Le Gobe-mouche à tête bleue de l'isle de Luçon, *Sonn. Voy. Nouv. Guin.* p. 58, pl. 27. fig. 1.

Muscicapa macroura, *Scop. Del. Faun. et Flor. Insubr.* p. 95, no. 107; *Walden, Tr. Z. S.* ix. p. 184.

MUSCICAPA PHILIPPINENSIS.

Le Moucherolle des Philippines, *Buff. Hist. Nat. Ois.* iv. p. 565.

Muscicapa philippinensis, *Gm. S. N.* i. p. 943, no. 63; *v. Martens, J. f. O.* 1860, p. 11, no. 34; *Walden, Tr. Z. S.* ix. p. 184.

MUSCICAPA MANILLENSIS.

Le Gobe-mouche à gorge jaune de l'isle de Luçon, *Sonn. Voy. Nouv. Guin.* p. 57, pl. 26. fig. 2.

Muscicapa manillensis, *Gm. S. N.* i. p. 943, no. 66 (ex *Sonn.*); *Walden, Tr. Z. S.* ix. p. 184.

| | |
|--|------------------------|
| Erythrosterna, <i>Bp. Comp. List B. Eur. and N. Amer.</i> | Type. |
| p. 25 (1838) | <i>M. parva.</i> |
| Synornis, <i>Hodgson, P. Z. S. 1845, p. 26.</i> | <i>M. albicilla.</i> |
| Hedymela, <i>Snyder. (Efr. K. Vet.-Akad. Förh. Stockh. 1846, p. 225)</i> | <i>M. atricapilla.</i> |
| Ficedula, <i>Sundev. Av. Meth. Tent. p. 23 (1872, ex Briss.).</i> | <i>M. atricapilla.</i> |

Bill of *Muscicapa grisola*.

Range. Throughout Europe, Africa, and Asia, extending south into the Molucca Islands, but not entering on the Australian region proper.

Key to the Species.

- a. With no white bar on the wing, and with no white at base of tail.
 - a'. Breast white, with brown streaks; under wing-coverts and axillaries fawn-coloured.
 - a''. Ashy brown above, the forehead perceptibly lighter than the rest of the upper surface, and hoary whitish in colour; the head distinctly mottled with streaks of darker brown. *grisola*, p. 151.
 - b''. Dark brown above, of a chocolate-colour, the head obscurely mottled with scarcely perceptible darker centres to the feathers, the crown not lighter than the rest of the upper surface *griseisticta*, p. 153.
 - b'. Breast uniform, without streaks.
 - c''. General colour above brown, ashy grey, or slate-colour: size large; wing 2·85 to 3·1 inches.
 - a'''. Bill horn-brown, the base of the lower mandible yellowish white.
 - a⁴'. Under wing-coverts and axillaries brown, upper surface brown. *aquatica*, p. 154.
 - b⁴'. Under wing-coverts ashy, axillaries white; general colour above bluish *cærulescens*, p. 154.
 - c⁴'. Under wing-coverts and axillaries white; upper surface dark slaty grey *cinerascens*, p. 155.
 - b'''. Bill entirely horn-black, with no white base to the lower mandible.
 - c⁴'. Under wing-coverts and axillaries ashy grey; upper surface light ashy grey *lugens*, p. 155.
 - d⁴'. Under wing-coverts and axillaries white; upper surface dark slaty grey *modesta*, p. 156.
 - d''. Size small; wing 2·7 inches: colour olive-brown; upper tail-coverts ochraceous brown *sordida*, p. 156.
 - b. With a white bar down the wing; no white at base of tail; colour black above.
 - c'. No white collar round the hind neck *atricapilla*, p. 157
 - d'. With a broad white collar round the hind neck *collaris*, p. 160.
 - c. With no white bar on the wing; base of tail white; throat orange-rufous or orange.

- e'*. Orange of throat confined to the throat and fore neck, not extending onto the breast; no black on sides of throat *parva*, p. 161.
- f'*. Orange of throat confined strictly to the throat, the fore neck grey right across, separating the red throat from the whitish breast and abdomen; no black on sides of throat. *albicilla*, p. 162.
- g'*. Throat and breast deep orange-rufous; sides of throat black *hyperythra*, p. 163.

1. *Muscicapa grisola*.

- Le Gobe-mouche, *Briss. Orn.* ii. p. 357, pl. xxxv. fig. 3; *Daubent. Pl. Ent.* v. pl. 565. fig. 1.
- Muscicapa grisola*, *Linn. Syst. Nat.* i. p. 328; *Tenm. Man.* i. p. 152; *Naum. Vög. Deutschl.* ii. p. 216, Taf. 64. fig. 1; *Roux, Orn. Prov.* pl. 149; *Werner, Atlas, Insectivores*, pl. 7; *Brehm, Vög. Deutschl.* p. 222; *Keys. u. Blas. Wirb. Eur.* p. 195; *Macgill. Brit. B.* iii. p. 518; *Yarr. Brit. B.* i. p. 164; *Gray, Gen. B.* i. p. 262; *Schl. u. Susem. Vög. Eur.* Taf. 19; *Gould, B. Eur.* ii. pl. 65; *Schl. Vög. Nederl.* pl. 115; *Sunder. Sv. Fögl.* pl. xvii. fig. 1; *Hartk. Orn. W.-Afr.* p. 97; *Cass. Pr. Philad. Acad.* 1859, p. 51; *Linderm. Vög. Griech.* p. 116; *Hartk. J. f. O.* 1861, p. 169; *Schl. Vög. van Nederl.* pl. 11. fig. 1; *Lagard, B. S. Afr.* p. 148, no. 281; *Gray, Hand-l. B.* i. p. 321, no. 4811; *Finsch, Tr. Z. S.* vii. p. 245; *Finsch & Hartk. Vög. Ostaf.* p. 300; *Heugl. Orn. N.O.-Afr.* i. p. 439; *Shelley, B. Egypt.* p. 118; *Newt. ed. Yarr. Brit. B.* i. p. 220; *Sharpe, P. Z. S.* 1873, p. 71; *Severtz. Turkest. Jevotn.* p. 67; *Dresser, Ibis*, 1876, p. 188; *id. B. Europe*, pt. xlv.; *Blanf. East Persia*, p. 143; *Adam, Str. F.* 1873, p. 377.
- Butalis grisola*, *Boie, Isis*, 1826, p. 973; *Nordm. in Demid. Voy. Russie Mérid.* iii. p. 199; *Blyth, Cat. B. Mus. A. S. B.* p. 175; *Bp. Consp.* i. p. 317; *Cab. Mus. Heim. Th.* i. p. 52; *Fritsch, Vög. Eur.* tab. 24. fig. 4; *Jaub. et Barth. Lap. Rich. Orn.* p. 195; *Degl. et Gerbe, Orn. Eur.* i. p. 583; *Loche, Expl. Sci. Algér. Ois.* ii. p. 61; *Ucc. Lombard.* tav. 69; *Salvad.*

Butalis, p. 162; *Butalis*, *Str. F.* 1877, p. 495; *Sharpe et Bouvier, Bull. Soc. Zool. France*, 1877, p. 479.

Butalis montana, *Brehm, Vög. Deutschl.* p. 221.

Butalis pinetorum, *Brehm, t. c.* p. 221.

Butalis africana, *Bp. C. R.* xxxviii. p. 652.

Muscicapa africana, *Gray, Hand-l. B.* i. p. 321, no. 4812.

Nestling. General colour above mottled, the feathers being yellowish buff edged with blackish brown; wings dark brown, the coverts spotted with buff in the centre, the greater series and the secondaries rather broadly edged with fulvous-brown; lores and feathers over the eye fulvescent; sides of face brown, with yellowish-buff centres to the feathers; under surface white, the feathers of the breast with brown edgings, producing a mottled appearance.

The young birds appear to gain their full plumage before leaving

Europe, as a specimen killed in August has nearly completed his adult dress, only a few remains of mottled plumage being apparent. The young, when their feathers are fully moulted, do not appear to differ in any way from the adults. The distinctness of the stripes on the breast is a character that varies a good deal, and some specimens are more rufescent in colour than others; these may be the newly moulted birds.

Adult. General colour brown, the forehead and crown of the head broadly streaked with dark-brown centres to the feathers; wing-coverts brown, with whitish-brown edges to the wing-coverts and secondaries; the primaries and primary-coverts dark brown, narrowly margined with paler brown; tail dark brown, with lighter brown edges to the feathers; lores and feathers in front of the eye dull whitish; round the eye a ring of buffy whitish feathers; ear-coverts brown; cheeks dull white, longitudinally streaked with light brown, broader on the sides of the throat, and forming an ill-defined malar streak; rest of under surface of body dull white, purer on the centre of the abdomen, the chest shaded with light brown and narrowly streaked with darker brown, these streaks becoming nearly obsolete on the lower breast and flanks, the latter being more uniform like the sides of the breast; thighs light brown; under tail-coverts white; under wing-coverts orange-brown, shaded with darker brown in the centre of the feathers; quills ashy brown below, dull buffy white along the inner webs; bill brown, paler at base of lower mandible; feet black; iris dusky brown. Total length 5·4 inches, culmen 0·55, wing 3·4, tail 2·45, tarsus 0·6.

Hab. The whole of Europe in summer, ranging in winter into Southern Africa and North-western India.

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|--------------------------|---|----------------------------|
| <i>a.</i> Pull. sk. | England. | J. Gould, Esq. [C.]. |
| <i>b, c.</i> ♂ ♀ ad. st. | Cambridgeshire. | Mr. J. Baker [C.]. |
| <i>d.</i> ♂ juv. st. | Cambridgeshire. | Mr. J. Baker [C.]. |
| <i>e, f.</i> Pull. st. | Cambridgeshire. | Mr. J. Baker [C.]. |
| <i>g.</i> Pull. sk. | Belgium. | Brussels Museum [C.]. |
| <i>h.</i> Ad. sk. | Tunis. | L. Fraser, Esq. [C.]. |
| <i>i.</i> ♂ ad. sk. | Ali Beg Keuy, Turkey (<i>H. Pearce</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>k.</i> ♂ ad. sk. | Banias, Palestine. | Canon Tristram [C.]. |
| <i>l.</i> ♂ ad. sk. | Shiraz, Persia, July 1870. | Capt. St. John [C.]. |
| <i>m.</i> ♂ ad. sk. | Isbahan, July 10, 1872. | W. T. Blanford, Esq. [C.]. |
| <i>n.</i> ♀ ad. sk. | Saïsan, Turkestan, May 30, 1876. | Dr. Otto Finsch [C.]. |
| <i>o.</i> Ad. sk. | Rajkote, Kattiawar, Sept. 14, 1871. | Major Hayes Lloyd [P.]. |
| <i>p, q.</i> Ad. sk. | Egypt. | Old Collection. |
| <i>r.</i> Ad. sk. | Zoulla, June 13, 1868 (<i>H. Jesse</i>). | R. B. Sharpe, Esq. |
| <i>s, t.</i> Ad. sk. | Connor's Hill, Cape Coast (<i>Gov. Ussher</i>). | R. B. Sharpe, Esq. |
| <i>u.</i> Ad. sk. | Fantee (<i>Gov. Ussher</i>). | R. B. Sharpe, Esq. |
| <i>v.</i> Ad. sk. | Abeokuta (<i>H. Robin</i>). | F. Nicholson, Esq. [P.]. |
| <i>w.</i> Ad. sk. | Mombas, E. Africa (<i>Wakefield</i>). | R. B. Sharpe, Esq. [P.]. |

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| <i>x, y.</i> ♂ ad.; <i>z.</i> juv. sk. | Ondonga, Ovampo Land, Nov. 1866 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>a'.</i> ♂ ad. sk. | Elephant Vley, Damara Land, Oct. 19, 1859 (<i>C. J. A.</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>b'.</i> ♀ ad. sk. | Pinetown, Natal, Feb. 4, 1875 (<i>T. L. Ayres</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>c'.</i> Ad. sk. | Natal. | Dr. Guerinzius [C.]. |

2. *Muscicapa griseisticta*.

Butalis manillensis, *Bp. C. R.* xxxviii. p. 652 (*nec Muscicapa manillensis*, *Gm. ex Sonn.*; *nec Vieill. N. Dict.* xxi. p. 470, *ex Sommerat*); *Walden, Tr. Z. S.* viii. p. 66, ix. p. 183; *Sharpe, Tr. Linn. Soc.* new series, i. p. 326; *Tweedd. P. Z. S.* 1877, p. 694.

Hemichelidon fuliginosa, *Swinh. Ibis*, 1860, p. 57 (*nec Hodgs.*).

Hemichelidon griseosticta, *Swinh. Ibis*, 1861, p. 330.

Butalis hypogrammica, *Wallace, Ibis*, 1862, p. 350; *Walden, Tr. Z. S.* vii. p. 66.

Butalis griseosticta, *Swinh. P. Z. S.* 1863, p. 288, 1866, p. 131, 1871, p. 379; *David & Oustal. Ois. Chine*, p. 122.

Muscicapa hypogrammica, *Gray, Hand-l. B.* i. p. 321, no. 4814.

Adult. Above brown, the head slightly mottled with darker centres to the feathers; wing-coverts like the back, the greater series with light ends to the feathers; primary-coverts and primaries dark brown, lighter on the edges of the feathers, the secondaries decidedly paler on the margins; tail brown; ear-coverts brown like the head; lores white; cheeks also brown, mottled with white bases to the feathers; throat white, mottled with brown edges to the feathers, especially along the moustachial line; breast and sides of body brown, the former with white edges to the feathers, imparting a streaked appearance; abdomen and under tail-coverts white; thighs white, with brown bases; under wing-coverts fulvous-brown, with ashy bases to the feathers; quills brown, more ashy along the inner webs; "iris brown; bill brown, with a little yellow at the base of the lower mandible; feet brown" (*David*). Total length 5·3 inches, culmen 0·5, wing 3·25, tail 2·1, tarsus 0·5.

Obs. Specimens differ in the distinctness of the markings on the under surface, which is more striped with brown in some examples than in others.

Hab. China, ranging southwards to the Philippines and the Moluccas.

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| <i>a.</i> Ad. sk. | Formosa. | R. Swinhoe, Esq. [C.]. |
| <i>b.</i> Ad. sk. | Philippine Islands. | Hugh Cuming, Esq. [C.]. |
| <i>c, d, e.</i> Ad. sk. | Morty Island. | A. R. Wallace, Esq. [C.]. |
| <i>f.</i> Ad. sk. | E. Ceram. | A. R. Wallace, Esq. [C.]. |
| <i>g.</i> ♂ ad. sk. | Ceram. | A. R. Wallace, Esq. [C.]. |

(Type of *B. hypogrammica*.)

3. *Muscicapa aquatica*.

Muscicapa aquatica, *Heugl. J. f. O.* 1864, p. 256; *Gray, Hand-l. B. i.* p. 322, no. 4830; *Heugl. Orn. N.O.-Afr. i.* p. 436, Taf. fig. 2.

Adult male (Wau, January 1864, *Heuglin*). General colour above ashy brown, the wings rather darker brown, with edgings of paler brown to the greater coverts and the secondaries; tail dull brown; in front of the eye a spot of dusky white; eyelids and sides of face ashy brown, with a slight reddish tinge; throat white, the lateral feathers slightly washed with pale brown; breast and sides of the body and under tail-coverts very pale ashy brown, the centre of the abdomen and vent whiter; thighs brown; under wing-coverts dull brown, with lighter margins; quills dull brown below, with lighter brown margins to the inner webs; "bill and feet black, the lower mandible pale yellowish; iris dusky" (*Heuglin*). Total length 5·1 inches, culmen 0·6, wing 2·65, tail 2·2, tarsus 0·55. (*Mus. Lugd.*)

Adult female. Not to be distinguished from the male (*Heuglin*).

Hab. Gazelle River, N.E. Africa; Senegambia.

a. Ad. sk.

River Gambia.

R. B. Sharpe, Esq.

4. *Muscicapa cærulescens*.

Butalis, sp., *Sclater, P. Z. S.* 1864, p. 109.

Butalis cærulescens, *Hartl. Ibis*, 1865, p. 268.

Muscicapa cærulescens, *Layard, B. S. Afr.* p. 148, no. 282; *Gray, Hand-l. B. i.* p. 321, no. 4813; *Finsch & Hartl. Vög. Ostaf.* p. 303.

Muscicapa modesta, *Bocage, Journ. Liss. ii.* p. 43 (*nec Hartl.*).

Muscicapa cinereola, *Finsch & Hartl. Vög. Ostaf.* p. 302, Taf. iv. fig. 1 (type examined); *Heugl. Orn. N.O.-Afr. i.* p. 43; *Bocage, Journ. Liss. ii.* p. 343, v. p. 24; *id. Orn. Angola*, p. 202.

Adult male. General colour above dull blue-grey, the forehead and crown obscurely streaked with dark brown down the centre of the feathers; wing-coverts grey like the back; quills dark brown, externally edged with grey, inclining to white on the extreme edge of the primaries, and more distinct on the secondaries, which are otherwise entirely grey; tail ashy brown, with a very slight edging of white at the tip; from the base of the bill a line of buffy white extending above the fore part of the eye; in front of the latter a blackish spot; above and below the eye a spot of white, forming a tolerably distinct superciliary mark, the spot below the eye larger and better defined; ear-coverts dull grey, with indistinct whitish shaft-lines; cheeks greyish, slightly mottled with whitish tips to the feathers; under surface of body dull grey, the throat and centre of the abdomen purer white; under tail-coverts ashy, with whitish tips; thighs greyish externally, dull white internally; under wing-coverts ashy whitish; quills below dark brown, the inner webs whitish towards

their base; bill and feet black; iris dark brown. Total length 5·3 inches, culmen 0·55, wing 2·95, tail 2·45, tarsus 0·7.

Hab. East Africa, Southern and South-western Africa.

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| a. Ad. st. | Natal. | Purchased. |
| b. ♀ ad. sk. | Natal. | Dr. Gueinzins [C.]. |
| c. ♂ ad. sk. | Natal (<i>T. Ayres</i>). | J. H. Gurney, Esq. [P.]. (Type of species.) |
| d. Ad. sk. | Ombongo, Damara Land, June 22, 1859 (<i>C. J.</i> <i>Andersson</i>). | R. B. Sharpe, Esq. |

Subsp. *α*. *Muscicapa cinerascens*.

Adult. Similar to *M. caerulescens*, but more ashy grey and not so blue, especially on the sides of the face and breast; differing from the last-named species in being duller coloured, and in having a longer and rather thinner bill; bill horn-brown, with the base of the lower mandible lighter yellowish. Total length 5·6 inches, culmen 0·5, wing 2·8, tail 2·2, tarsus 0·65.

Hab. Gold Coast.

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| a. Ad. sk. | Fantee (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. |
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5. *Muscicapa lugens*.

Butalis lugens, *Hartl. P. Z. S.* 1860, p. 110; *id. J. f. O.* 1861, p. 169.

Muscicapa lugens, *Gray, Hand-l. B. i.* p. 321, no. 4817; *Finsch & Hartl. Vög. Ostafri.* p. 302; *Reichen. J. f. O.* 1875, p. 22; *Bocage, Orn. Angola*, p. 203.

Adult (type of species). General colour above uniform blue-grey, the forehead and crown slightly mottled with blackish centres to the feathers, the upper tail-coverts browner with blue-grey margins; wings black, the wing-coverts broadly edged with blue-grey, the secondaries with ashy grey, paler at the tips of the feathers; primary-coverts and primaries uniform blackish brown; tail-feathers dark brown, edged with grey near the base, and very slightly tipped with white; lores ashy whitish; feathers in front of the eye dusky; cheeks and ear-coverts dusky grey, the latter slightly streaked with whitish; throat whitish; sides of neck, breast, and sides of body ashy grey, the belly and under tail-coverts white; thighs grey; under wing-coverts ashy grey, the wing-coverts whitish at tip; quills ashy below, with brown edgings along the inner webs; bill dark brown, the lower mandible lighter. Total length 5·5 inches, culmen 0·6, wing 2·85, tail 2·35, tarsus 0·55.

Obs. In 1859 the late Mr. Cassin noticed a species of Flycatcher from the Camma, but was unable to determine it. This he did, no doubt, advisedly, knowing the difficulty in identifying the species of this genus; but Mr. Heine, without ever seeing the bird, gave a name

to it from the description of Mr. Cassin*. The latter is copied out below, and I am unable to identify the species; the black bill suggests the probability of its being the same as *M. lugens*, but then the under wing-coverts are described as "ashy white," which is like *M. corulescens*. The type will have to be re-examined, as the description is vague.

Hab. West Africa.

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| <i>a.</i> Ad. sk. | Bembe, Angola. | J. J. Monteiro, Esq. [C.]. |
| | | (Type of species.) |
| <i>b, c.</i> Ad. sk. | Elobe district, Gaboon. | Henry Ansell, Esq. [P.]. |

6. *Muscicapa modesta*.

Muscicapa modesta, *Hartl. Orn. W.-Afr.* p. 96; *Gray, Hand-l. B. i.* p. 322, no. 4827.

Adult. Upper surface dark slaty grey, the tail uniform with the back, the wing-feathers dark brown, externally slaty grey like the back, the primaries margined with hoary grey; in front of the eye a conspicuous white spot; under surface of body white, the bases to the feathers greyish; sides of breast and flanks grey; under wing-coverts white, the feathers grey at base; quills ashy brown below, white along the inner web; thighs white, with dusky grey bases. Total length 5·3 inches, culmen 0·6, wing 3·1, tail 2·6, tarsus 0·7.

Hab. Gaboon.

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| <i>a.</i> Ad. sk.† | River Danger, Gaboon. | Henry Ansell, Esq. [P.]. |
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7. *Muscicapa sordida*.

Erythrosterina sordida, *Godwin-Austen, J. A. S. B.* xliii. p. 158; *Hume, Str. F.* 1875, p. 392.

Adult (type of species). General colour above olive-brown, with a greenish tinge, rather yellower on the lower rump, and inclining to ochraceous brown on the upper tail-coverts; least and median wing-coverts like the back, the greater series dark brown edged with olive and narrowly tipped with whitish; primary-coverts and quills

* MUSCICAPA CASSINI.

Muscicapa, sp., *Cass. Pr. Philad. Acad.* 1859, p. 51.

Muscicapa cassini, *Heine, J. f. O.* 1860, p. 428; *Hartl. J. f. O.* 1861, p. 170; *Gray, Hand-l. B. i.* p. 322, no. 4829.

Adult male. Upper parts clear bluish ashy, lighter on the rump, and with longitudinal lines of brownish black on the head; throat and abdomen white; breast pale ashy, nearly the same as the back, the under wing-coverts ashy white, the quills and tail brownish black; an obscure line of ashy white in front of the eye; bill and feet black.

Young male. Upper parts cinereous, many feathers with large terminal spots of dull yellowish; under parts dull white, with spots and edgings of brownish black; tail black, narrowly tipped with white. Total length about 5 inches, wing 2½, tail 2¼. (*Cassin.*)

Hab. Camma River, Gaboon.

† In bad condition.

dark brown edged with olive, inclining to ochraceous on the inner secondaries; tail ashy brown, strongly washed with olive on the outer webs; lores and a distinct ring round the eye dull whitish; ear-coverts and sides of face olive-brown, with distinct shaft-lines of buffy white; cheeks and under surface of body ashy, strongly washed with olive, and with an ochraceous tinge on the fore neck, sides of breast, and flanks; thighs ashy brown; under wing-coverts and axillaries pale yellowish buff; quills ashy brown below, yellowish buff along the inner webs. Total length 4·6 inches, culmen 0·4, wing 2·7, tail 2·2, tarsus 0·65. (*Mus. Godwin-Austen.*)

Hab. Naga Hills.

8. *Muscicapa atricapilla*.

The Pied Flycatcher.

The Cold Finch, *Edwards, Nat. Hist. Birds*, i. p. 30, pl. 30.

Le Gobe-mouche noir, *Briss. Orn.* ii. p. 381.

Le Becligue, *Briss. Orn.* iii. p. 369 (*pl. autumn.*); *Daubent. Pl.*

Ent. vi. pl. 668. fig. 1; *Sunder. Ar. Meth. Tent.* p. 23.

Le Traquet de l'Angleterre, *Briss. Orn.* iii. p. 436 (*ex Edwards*).

Le Gobe-mouche noir de Lorraine, *Daubent. Pl. Ent.* v. pl. 565. figs. 2, 3.

Muscicapa atricapilla, *Linn. S. N.* i. p. 326; *Roux, Orn. Prov.* pl. 150; *Brehm, Vög. Deutschl.* p. 224; *Nordm. in Demid. Voy. Russ. Mérid.* iii. p. 198; *Keys. u. Blas. Wirb. Eur.* p. 196; *Yarr. Brit. B.* i. p. 169; *Gray, Gen. B.* i. p. 262; *Blyth, Cat. B. Mus. A. S. B.* p. 175; *Bp. Consp.* i. p. 317; *Cab. Mus. Hein. Th.* i. p. 52; *Schl. Vög. Nederl.* pl. 116; *Sunder. Sc. Fögl.* pl. 17. figs. 2, 3; *Fritsch, Vög. Europ.* tab. 21. fig. 6, tab. 24. fig. 5; *Jaub. et Barth. Lapom. Rich. Orn.* p. 193; *Linderm. Vög. Griechentl.* p. 166; *Schl. Vög. van Nederl.* pl. 11. figs. 2, 3; *Loche, Expl. Sci. Algér.* ii. p. 58; *Gould, B. Gt. Br.* ii. pl. 17; *Gray, Hand-l. B.* i. p. 321, no. 4821; *Heugl. Orn. N.O.-Afr.* p. 438; *Salvad. Ucc. Ital.* p. 55; *Sharpe, Cat. Afr. B.* p. 42, no. 395; *Shelley, B. Egypt.* p. 119; *Newton, ed. Yarr. Br. B.* p. 229; *Irby, B. Gibr.* p. 101; *Dresser, B. Eur.* parts 35, 36; *Blauf. East Persia*, p. 143; *Bocage, Orn. Angola*, p. 202; *Sharpe & Bouvier, Bull. Soc. Zool. France*, i. p. 32.

Motacilla ficedula, *Linn. S. N.* i. p. 339.

Emberiza luctuosa, *Scop. Ann.* i. p. 146; *Bechst. Naturg. Deutschl.* iv. p. 501, note.

Muscicapa maculata, *P. L. S. Müll. Syst. Nat.*, Anhang, p. 171; *Cass. Pr. Philad. Acad.* 1864, p. 256.

Sylvia ficedula, *Lath. Ind. Orn.* ii. p. 517.

Muscicapa muscipeta, *Bechst. Naturg. Deutschl.* iv. p. 502; *Brehm, Vög. Deutschl.* p. 226.

Muscicapa luctuosa, *Tenn. Man.* 1815, p. 101; *Naum. Vög. Deutschl.* ii. p. 231, Taf. 64. figs. 2-4; *Werner, Atlas, Insectivores*, pl. 9; *Brehm, Vög. Deutschl.* p. 225; *Macgill. Brit. B.* iii. p. 524; *Gould, B. Eur.* ii. pl. 63. fig. 1.

Muscicapa alticeps, *Brehm, Vög. Deutschl.* p. 225.

Muscicapa fuscicapilla, *Brehm, V. D.* p. 226.

Muscicapa atrogrisea, *Brehm, V. D.* p. 226.

Muscicapa picata, *Sicains. Monogr. Phyc.* p. 254; *Hartl. Orn. W.-Afr.* p. 97; *Gray, Hand-l. B.* i. p. 322, no. 4828.

Hedymela atricapilla, *Sunder. Öffr. K. Vet.-Akad. Förh. Stockh.* 1846, p. 225.

- Muscicapa speculigera*, *Bp. Conspectus* i. p. 317 (ex *Selys-Lonch. MS.*); *Hartl. J. f. O.* 1861, p. 169; *Loche, Expl. Sci. Alger. Ois.* ii. p. 60; *Gray, Hand-l. B.* i. p. 322, no. 4825.
Muscicapa speculifera (lapsu), *Schl. Vog. Nederl.* p. 225.
Muscicapa nigra, *Degl. et Gerbe, Orn. Eur.* i. p. 580.
Ficedula atricapilla, *Sund. Av. Meth. Tent.* p. 23; *Collett, Vid. Selsk. Förh. Christiania*, 1872, p. 198.

Nestling. General colour above reddish brown, with dark brown edgings to the feathers, which are all mottled with large subterminal spots of pale ochraceous buff, smaller on the head; wings brown, the median coverts with ochraceous buff tips, the greater series tipped with buffy white; the three inner secondaries externally buffy white, forming a bar down the wing; tail-feathers blackish, the two outer feathers white along the outer web, extending even to the inner web on the outermost feather; ear-coverts pale yellowish brown; lores and feathers round the eye buffy white; cheeks and under surface of body dull white, washed with ochraceous buff on the chest, the feathers of which have darker brown margins.

Young male (Stockholm, Aug. 15, 1845). Similar to the old female, but differing in the amount of white in the tail, which is greater than in the old hen bird.

Young male (in second year, May 20, 1855). More of a greyish brown than the old female, but not black like the old male, which it nearly resembles as regards the amount of white in the wings and tail; lores, feathers in front of eye, and ear-coverts shaded with black, the white frontal mark very indistinct; under surface of body white, with a slight ochraceous tinge on the breast and flanks; thighs brown; under wing-coverts and axillaries ochraceous buff.

Adult male. General colour above black, with here and there a shade of brown, probably remains of previous plumage; wing-coverts black, some of the older feathers brown, the median series tipped with white, the inner greater coverts entirely white; primary-coverts entirely dark brown; quills dark brown, the inner primaries with a white spot at the base of the outer web, the secondaries with a conspicuous fawn-coloured spot at the base of both webs; the inner secondaries white at the base, increasing in extent on the innermost, which are white, with more or less black towards the end of the feather; tail blackish, the three outer feathers marked with white, the outermost being almost entirely white, with brown shaft and a brown mark near the tip of the inner web, the penultimate one being white on the base and on the outer web, the brown on the inner web more extended and occupying the greater part of the latter, the third feather brown with an edging of white on the outer web and near the base of the inner one; forehead white; lores, feathers round the eye, and ear-coverts black; cheeks and under surface of body white, the thighs black at the base of the feathers; under wing-coverts and axillaries white, with blackish bases to the feathers; lower series of coverts and quills below ashy brown, whitish along the edge of the inner web; "bill and legs

black; iris brown.⁴ Total length 5·5 inches, culmen 0·4, wing 3·15, tail 2·15, tarsus 0·7.

Adult female. Different from the male. General colour above warm brown, the least wing-coverts like the back; median and greater series blackish brown, externally edged with the same brown as the back, the median coverts tipped with whitish brown, the greater series with creamy white; primary-coverts entirely blackish brown; quills blackish brown, the innermost secondaries broadly edged with white, the secondaries with a creamy white spot at base, concealed by the tips of the greater coverts, the inner primaries with a small white spot near the base of the outer web; upper tail-coverts black; tail blackish brown, the three outer feathers with a broad white mark on the outer web, gradually less on the penultimate and third feathers; forehead ochraceous buff; in front of the eye a dull white spot; ring of feathers round the eye light ochraceous buff; sides of face and ear-coverts ochraceous brown, mottled with pale fulvous-brown spots on the feathers: cheeks and throat pale ochraceous brown, shading gradually off into the pure white of the abdomen and under tail-coverts: thighs white; throat whitish in the centre; sides of body light ochraceous brown; under wing-coverts and axillaries ochraceous buff, the former with dusky bases; quills dark brown below, whitish along the inner web. Total length 5·1 inches, culmen 0·4, wing 2·95, tail 2·1, tarsus 0·65.

Hab. Europe generally, extending eastwards to Persia, and in winter ranging into Africa.

| | | |
|-------------------|---|----------------------------|
| a. Pull. st. | Yorkshire. | Mr. J. Baker. |
| b, c. ♂ ♀ ad. st. | Halifax, Yorkshire (<i>Mr. Parke</i>). | |
| d. ♂ juv. sk. | Stockholm, Aug. 15, 1845. | Purchased. |
| e. ♂ imm. sk. | Stockholm, May 20, 1855. | Purchased. |
| f. ♂ ad. sk. | Heligoland, May 1877 (<i>L. Gütke</i>). | Henry Seebohm, Esq. [P.]. |
| g. ♂ ad. sk. | Belgium, May 18, 1848. | Brussels Museum [P.]. |
| h. ♀ ad. sk. | Belgium, Sept. 15, 1871. | Brussels Museum [P.]. |
| i. Juv. sk. | Piedmont. | |
| k. ♀ ad. sk. | Valencia, Spain, April 21, 1872 (<i>H. Saunders</i>). | Henry Seebohm, Esq. [P.]. |
| l, m. ♀ ad. sk. | Europe. | |
| n. ♀ ad. st. | Europe. | |
| o. ♂ ad. st. | Algiers. | Purchased. |
| p. ♂ ad. sk. | River Gambia. | |
| q. Jun. sk. | River Gambia. | R. B. Sharpe, Esq. |
| r. ♀ ad. st. | Persia. | |
| s. ♂ ad. sk. | Persia. | Purchased. |
| t. ♀ ad. sk. | Karij Valley, Elburz Mountains, N. Persia, 7000 ft., Aug. 10, 1872. | W. T. Blanford, Esq. [C.]. |

9. *Muscicapa collaris*.

The Collared Flycatcher.

Muscicapa atricapilla, *Jacquin. Beytr.* p. 41, tab. 18 (*nec L.*).

Muscicapa collaris, *Bechst. Naturg. Deutschl.* iv. p. 495; *id. Orn. Taschenb.* p. 158; *Nordm. in Demid. Voy. Russ. Mérid.* iii. p. 198; *Kjærh. Orn. Dan.* Taf. 15; *Cub. Mus. Hein.* i. p. 52; *Bp. Consp.* i. p. 317; *Sundev. Sv. Fögl.* pl. 18, fig. 4; *Jaub. et Barth. Lap. Rich. Orn.* p. 194; *Schl. Vog. van Nederl.* pl. 11, fig. 4; *Degl. et Gerbe, Orn. Eur.* i. p. 381; *Loche, Expt. Sci. Algér. Ois.* ii. p. 58; *Gray, Haul-t. B.* i. p. 322, no. 4822; *Doderl. Arif. Sicil.* p. 141; *Salvad. Ucc. Ital.* p. 55; *Heugl. Orn. N.O.-Afr.* i. p. 438; *Gould, B. Ct. Br.* ii. pl. 18; *Shelley, B. Egypt.* p. 120; *Dresser, B. Eur.* pt. 34; *Blanford, East Persia*, p. 143.

Muscicapa albicollis, *Temm. Man. d'Orn.* p. 100; *Naum. Vög. Deutschl.* ii. p. 224, Taf. 65, figs. 1, 2; *Werner, Atlas, Insectivores*, pl. 8; *Brehm, Vög. Deutschl.* p. 224; *Gould, B. Eur.* ii. pl. 63, figs. 2, 3; *Keys. u. Blas. Wrb. Eur.* p. 196; *Gray, Gen. B.* i. p. 262; *Schl. u. Susem. Vög. Eur.* Taf. 13; *Schl. Vog. Nederl.* pl. 117; *Fritsch, Vög. Eur.* tab. 21, fig. 10, tab. 24, fig. 3; *Linderm. Vög. Griechent.* p. 116.

Muscicapa streptophora, *Vieill. Faune Franç.* p. 145; *Roux, Orn. Pror.* pl. 151.

Muscicapa albifrons, *Brehm, Vög. Deutschl.* p. 223.

Hedymela collaris, *Sunder. Öfvr. K. Vet.-Akad. Förh. Stockh.* 1846, p. 225.

Muscicapa melanoptera, "*Heckel*," *J. F. Naumann, Vög. Deutschl.* xiii. p. 245, Taf. 351; *Salvad. Ucc. Ital.* p. 312.

Muscicapa collaris albifrons, *A. E. Brehm, Verz. Samml. C. L. Brehm*, p. 3.

Muscicapa collaris microrhyncha, *id. t. c.* p. 3.

Muscicapa collaris atrostriata, *id. t. c.* p. 3.

Adult male. General colour above black, the lower back and rump ashy grey, somewhat mottled with white bases to the feathers; wings black, with conspicuous white bases to all of them; the innermost secondaries white along their outer webs, so as to form a bar down the wing, the three innermost quills being white with a black tip, the black increasing as they near the back; upper tail-coverts black, with obsolete grey tips; tail-feathers black, with the external feathers white along the outer web; round the hind neck a white collar; on the forehead a white patch; a narrow frontal line, lores, and sides of face black; cheeks and entire under surface of body white; thighs black; under wing-coverts white, with dusky blackish bases; quills blackish, with a distinct patch of white at the base. Total length 5·2 inches, culmen 0·45, wing 3·25, tail 2·1, tarsus 0·7.

Adult female. Different from the male. General colour above ashy brown, greyer on the rump and upper tail-coverts; wing-coverts dark brown, externally shaded with ashy, the greater series broadly tipped with white; primary-coverts dark brown; quills dark brown, the primaries white at the base, forming a speculum; the innermost secondaries white at base and along the outer web, forming a bar down the wing; upper tail-coverts blackish, with ashy margins; tail-feathers black, edged with ashy brown, the

three outer feathers externally white, the entire outer web of the external feather white; feathers at base of forehead, lores, and feathers round the eye buffy white; ear-coverts a little darker ashy brown than the head; cheeks and under surface of body ashy fulvous, the abdomen and under tail-coverts white; thighs ashy fulvous; under wing-coverts and axillaries buffy white, with dusky bases to the inner webs; quills dull brown below, whitish along the inner web. Total length 5·2 inches, culmen 0·4, wing 2·2, tail 2·1, tarsus 0·65.

Hab. Central and Southern Europe.

- a. ♂ ad. st. Europe.
 b. ♂ ad. sk. Smyrna, April 15, 1872 (*Dr.* Henry Seebohm, Esq. [P.]. *Krüper*).
 c. ♀ ad. sk. Taurus Mountains, Asia Minor, Henry Seebohm, Esq. [P.]. Nov. 18, 1876 (*C. G. Danford*).

10. *Muscicapa parva*.

The Red-breasted Flycatcher.

Muscicapa parva, *Bechst. Naturg. Deutschl.* iv. p. 505; *Temm. Man.* i. p. 158; *Naum. Vög. Deutschl.* ii. p. 241, Taf. 65. fig. 3; *Werner, Atlas, Insectivores*, pl. 10; *Brehm, Vög. Deutschl.* p. 227; *Gould, B. Eur.* ii. pl. 64; *Nordm. in Denid. Vög. Russ. Mérid.* iii. p. 196; *Keys. u. Blas. Wirb. Eur.* p. 195; *Gray, Gen. B.* i. p. 262; *Kjærh. Orn. Dan.* pl. 15; *Schl. u. Susem. Vög. Eur.* Taf. 18; *Sunder. Sc. Fogl.* pl. 68. fig. 5; *Fritsch, Vög. Eur.* tab. 24. fig. 15, tab. 25. fig. 1; *Linderm. Vög. Griechentl.* p. 117; *Gray, Hand-l. B.* i. p. 322, no. 4839; *Newt. ed. Yarr. Br. B.* i. p. 224; *Severtz. Turkest. Jevotn.* p. 188; *Dresser, Ibis*, 1876, p. 188; *id. B. Eur.* parts 41, 42.

Muscicapa lais, *Hempr. & Ehr. Symb. Phys.* fol. t; *Heugl. Orn. N.O.-Afr.* p. 434.

Muscicapa rufogularis, *Brehm, Vög. Deutschl.* p. 228 (*nec Kuhl*).

Muscicapa minuta, *Hornsch. & Schill. Verz. Vög. Pomm.* 1837, p.

Erythrosterina parva, *Bp. Comp. List B. Eur. & N. Amer.* p. 25; *id. Consp.* i. p. 318; *Cab. Mus. Hein.* i. p. 53; *Jaub. et Barth. Lapomm. Rich. Orn.* p. 196, pl. 12; *Degl. et Gerbe, Orn. Eur.* i. p. 584; *Gould, B. Gt. Br.* ii. pl. 20; *Loche, Expl. Sci. Algér. Ois.* ii. p. 62; *Salvad. Ucc. Ital.* p. 56; *Blunf. East Persia*, p. 144; *Hume, Str. F.* 1873, p. 179; *Adam, t. c.* p. 377; *Ball, Str. F.* 1873, p. 405; *Hume, Str. F.* 1875, p. 469; *Brooks, Str. F.* 1876, p. 273; *Fairb. t. c.* p. 257; *Blunf. Str. F.* 1877, p. 484.

Erythrosterina parva ruficollis, *A. E. Brehm, Verz. Samml. C. L. Brehm*, p. 3.

Erythrosterina parva rufigularis, *id. t. c.* p. 3.

Adult male. General colour above ashy brown, the forehead, sides of face, and ear-coverts grey, this colour also extending onto the sides of the neck; lores hoary whitish; round the eye a ring of white feathers; wing-coverts ashy brown like the back; quills dark brown, externally ashy brown, the primaries narrowly edged with this colour; upper tail-coverts dark brown like the tail; two centre tail-feathers dark brown, the remainder for the greater part white,

dark brown for the terminal third and for a little distance along the outer web; cheeks, throat, and fore neck clear orange; remainder of under surface white, the sides of the body inclining to buff, the thighs more ashy; under wing-coverts fulvous like the sides of the body; quills brown below, fulvescent along the inner web; "bill horn-brown, lighter at base of lower mandible; legs dark brown; iris brown" (*Dresser*). Total length 5.1 inches, culmen 0.4, wing 2.6, tail 2, tarsus 0.65.

Adult female. Different from the male. Brown above, with no grey on the head or neck, the sides of face and ear-coverts also brown; wings brown, the greater coverts and quills with edgings of lighter brown; throat, chest, and sides of body suffused with yellowish buff, the abdomen and under tail-coverts white. Total length 4.9 inches, wing 2.6, tail 2, tarsus 0.65.

Young. Mottled all over; ochraceous above, all the feathers edged with dusky brown, the rump and upper tail-coverts lighter; wings brown, the upper wing-coverts tipped with spots of ochraceous, the quills edged with rufous-brown; ring round the eye and sides of face light ochraceous, as also the under surface of body, the breast-feathers edged with dusky; tail as in adult.

Hab. Central and South-eastern Europe, ranging into North-western India.

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| a. Pull. sk. | Europe. | Purchased. |
| b. ♂ ad. sk. | Belgrade, Turkey, March 1873 (<i>T. Robson</i>). | R. B. Sharpe, Esq. [P.] |
| c. ♀ ad.; d, e, f. ♂ ♀ juv. sk. | Sweet Waters, near Constantinople, Sept. 2, 1876 (<i>W. Pearce</i>). | R. B. Sharpe, Esq. [P.] |
| g. ♂ ad. sk. | Dizak, Baluchistan, March 22, 1872. | W. T. Blanford, Esq. [C.] |
| h. ♂ ad. sk. | Gondul, Kattiawar, Nov. 26, 1871. | Major Hayes Lloyd [P.] |
| i. ♂ ad. sk. | Cashmere. | R. B. Sharpe, Esq. [P.] |
| k, l. ♂ ad.; m, n. ♀ ad. sk. | N.W. Himalayas. | Captain Stackhouse Pinwill [P.] |
| o. ♂ ad. sk. | Umballa. | Capt. C. H. T. Marshall [P.] |
| p. ♀ ad. sk. | India. | Hon. E. India Co. [P.] |

11. *Muscicapa albicilla*.

Muscicapa albicilla, *Pall. Zoogr. Rosso-Asiat.* i. p. 462, Aves, tab. 1. *Saxicola rubeculoides*, *Sykes*, *P. Z. S.* 1832, p. 92.

? *Erythaca tytleri*, *Jameson*, *Edinb. Phil. Journ.* 1835, p. 214 (*descr. nullā*); *Jard. Contr. Orn.* 1850, p. 28.

*Muscicapa leucura**, *Swains.* *Nat. Hist. Flyc.* p. 253 (*nec Gm.*); *Gray, Hand-l. B.* i. p. 322, n. 4840.

Synornis leucura, *Hodgs. in Gray's Zool. Misc.* p. 83.

Synornis joulainus, *Hodgs. t. c.* p. 83; *id.* *P. Z. S.* 1845, p. 26.

* The *Motucilla leucura*, *Gm. S. N. i.* p. 939, is founded on a *White-tailed Flycatcher* of Latham (*Gen. Syn.* ii. p. 331) from South Africa, and does not apparently belong to this species.

Erythrostera leucura, *Blyth, Cat. B. Mus. A. S. B.* p. 171; *Bp. Conspect.* i. p. 318; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 297; *Jerd. B. Ind.* i. p. 481; *Swinh. P. Z. S.* 1863, p. 290; *Godwin-Aust. J. A. S. B.* 1870, p. 101; *Blyth & Walden, B. Burm.* p. 103; *Hume, Str. F.* 1874, p. 475, 1875, p. 105; *Tacz. Bull. Soc. Zool. France*, i. p. 169; *Armstr. Str. F.* 1876, p. 323.

Muscicapa parva (*nec Bechst.*), *Schrenck, Amur-Reise*, p. 374; *Rudde, Reis. Sibir.* p. 267.

Thamnobia niveiventris, *Swinh. Ibis*, 1860, p. 54.

Erythrostera mugimaki, *Swinh. Ibis*, 1861, p. 330 (*nec T. & S.*).

Erythrostera albicilla, *Swinh. P. Z. S.* 1862, p. 317; *id. P. Z. S.* 1871, p. 380; *Ball, Str. F.* 1874, p. 405; *David & Oust. Ois. de la Chine*, p. 120, pl. 79; *Hume & Davison, Str. F.* 1878, p. 223.

Muscicapa leucurus, *Gray, Hand-l. B.* i. p. 322, no. 4840.

Adult male. Brown above, the lores and sides of face light grey, this colour descending on each side of the orange throat onto the sides of the neck; throat deep orange; rest of under surface of body buffy white, the flanks deep fulvous; quills and tail as in *M. parva*; "bill dark brown, yellow at gape, and greyish at base of lower mandible; inside of mouth orange-fleshy; legs very dark brown, almost black, claws dark brown; eyelids dark plumbeous; iris dark brown" (*Oates*). Total length 4.5 inches, culmen 0.35, wing 2.65, tail 2, tarsus 0.65.

Adult female. Similar to the female of *M. parva*. Wing 2.7 inches, tail 2.0, tarsus 0.65.

Hab. Eastern Siberia, throughout China and the Burmese countries to Pegu and Tenasserim.

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|--|--------------------------------------|------------------------------------|
| <i>a, b.</i> ♂ ♀ ad. sk. | Tientsin, China (<i>Fleming</i>). | Mr. Whitely. |
| <i>c.</i> ♀ ad. sk. | Amoy. | Purchased. |
| <i>d.</i> ♂ ad. sk. | India. | Secretary of State for India [P.]. |
| <i>e.</i> ♀ ad. sk. | Behar. | B. H. Hodgson, Esq. [P.]. |
| <i>f.</i> ♂ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>g, h, i.</i> ♂ ad.; <i>k.</i> ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>l, m, n, o.</i> ♂ juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>p.</i> ♀ ad. sk. | Upper Assam (<i>Dr. Reid</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>q.</i> ♂ ad. sk. | Shillong. | Colonel H. H. Godwin-Austen [P.]. |
| <i>r.</i> ♂ juv. sk. | Bhamau, Upper Burmah, Jan. 23, 1868. | Dr. J. Anderson [C.]. |
| <i>s.</i> ♀ ad. sk. | Pegu. | W. T. Blanford, Esq. [P.]. |

12. *Muscicapa hyperythra*.

Siphia hyperythra, *Cabanis, J. f. O.* 1866, p. 391; *Walden, Ibis*, 1872, p. 472.

Menetica hyperythra, *Cabanis, J. f. O.* 1866, p. 401.

Niltava hyperythra, *Gray, Hand-l. B.* i. p. 326, no. 4901.

Erythrostera hyperythra, *Hodgson, P. Z. S.* 1872, p. 442, pl. 17; *Hume, Nests & Eggs Ind. B.* p. 217; *Brooks, Str. F.* 1875, p. 236.

Adult male. General colour above umber-brown, becoming more ashy on the rump, the upper tail-coverts blackish; least wing-

coverts like the back, slightly shaded with grey ; remainder of wing-coverts and quills dark brown, edged with lighter brown ; two centre tail-feathers blackish, the next on each side with a white patch at the base of the outer web ; remainder of the feathers white at base, with a broad ending of black, which extends a little way up the outer web ; lores, feathers round the eye, ear-coverts, and sides of neck dark grey ; under surface of body from the chin to the abdomen deep orange-chestnut, the sides of the breast dark grey ; a line of black feathers running from the base of the bill down the sides of the throat to the sides of the upper breast, and dividing the orange throat from the grey neck ; abdomen whitish ; flanks and under tail-coverts fawn-buff ; thighs ashy ; under wing-coverts and axillaries light fawn-buff, whitish near the edge of the wing ; quills dusky brown below, fulvescent along the edge of the inner web ; " bill brown above, lower mandible yellowish, brown at the tip ; feet dark brown, the soles yellowish ; iris hazel-brown " (*Legge, MS.*). Total length 4·4 inches, culmen 0·45, wing 2·7, tail 2·2, tarsus 0·7.

Adult female. Rather lighter brown above than the male, and without any grey on the rump ; ear-coverts light brown ; lores, feathers round the eye, and cheeks ashy whitish ; throat buffy white ; breast and sides of body yellowish orange, the sides of the upper breast greyish ; centre of the body and under tail-coverts white ; wings and tail much as in the male ; under wing-coverts yellowish like the flanks ; " bill dark horn-colour, the lower mandible light ; legs blackish lead-colour ; iris umber-brown " (*Legge, MS.*). Total length 4·6 inches, wing 2·65, tail 2, tarsus 0·7.

Hab. North-western India from Cashmere southwards ; Ceylon.

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|--------------|------------------------|------------------------------|
| a. ♀ ad. sk. | Cashmere. | Capt. J. Biddulph [C.]. |
| b. ♂ ad. sk. | Rambodde Pass, Ceylon, | Capt. W. Vincent Legge [P.]. |
| | Jan. 17, 1877. | |
| c. ♀ ad. sk. | Dimbulla, Ceylon, Nov. | Capt. W. Vincent Legge [P.]. |
| | 15, 1871. | |

11. PETRÆCA.

Type.

Petroica, Swainson, Zool. Illustr. 2nd series, i. pl. 36

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| (1829) | <i>P. leggii.</i> |
| <i>Erythrodryas, Gould, P. Z. S.</i> 1842, p. 112..... | <i>P. rhodinogastra.</i> |
| <i>Myiomoira, Reichenb. Syst. Ar. Taf.</i> lxxvii. (1850) .. | <i>P. toitoi.</i> |
| <i>Melanodryas, Gould, Handb. B. Austr.</i> i. p. 283 (1865) | <i>P. cucullata.</i> |
| <i>Amaurodryas, Gould, Handb. B. Austr.</i> i. p. 286 (1865) | <i>P. vittata.</i> |



Bill of *Petræca leggii*.

Range. Australia, New Zealand, Pacific islands.

Key to the Species.

- With red on the under surface of the body.
 - a'. With a white mark on the forehead.
 - a". Wing-coverts with a white patch.
 - a'''. Wing with a broad white longitudinal bar, formed by the outer web of the inner secondaries being white.
 - a⁴. Upper surface black; frontal white mark large; throat black; breast scarlet *leggii*, p. 165.
 - b⁴. Upper surface slaty grey; frontal mark small; only the chin black; remainder of throat and breast orange-scarlet .. *phænicea*, p. 166.
 - b'''. With no longitudinal band of white down the wing; inner greater coverts white, forming a large shoulder-patch.
 - c⁴. No white on the outer tail-feathers .. *multicolor*, p. 168.
 - d⁴. Outer tail-feathers white, black at base and at tip.
 - a⁵. Throat black *pusilla*, p. 168.
 - b⁵. Throat dusky, washed with scarlet .. *similis*, p. 169.
 - b''. Wing-coverts without any white on them at all; breast pink; frontal mark very small.
 - c'''. With no white on the tail. *rhodinogastra*, p. 170.
 - d'''. Outer tail-feathers for the most part white *rosca*, p. 170.
 - b'. Forehead red.
 - c''. Throat black. *goodenovii*, p. 171.
 - d''. Throat red in the centre. *ramsayi*, p. 172.
- With no red on the under surface of the body.
 - c'. Throat black.
 - e''. Size larger; wing 3·5–3·6 inches; no white spot on forehead } *bicolor* ♂, p. 173.
 - f''. Size smaller; wing not exceeding 2·9 inches; a white spot on the forehead. } *picata* ♂, p. 174.
 - e'''. Breast white *toitot*, p. 174.
 - f'''. Breast yellow. *macrocephala*, p. 176.
 - d'. Throat ashy; base of tail white *bicolor* ♀, p. 174.
 - e'. Throat dusky brown; only the outer tail-feather white at base and for whole extent of outer web *vittata*, p. 177.

1. *Petrœca leggii*.

Sylvia erythrogastra, *Lewin, Birds of New Holland*, pl. 17 (*nec Lath.*).

Scarlet-breasted Flycatcher, *Latham, Gen. Hist. B.* vi. p. 210.

Muscicapa multicolor, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 279 (*nec Gm.*).

Petrœca multicolor (*nec Gm.*), *Sicains. Zool. Illustr.* ser. 2, vol. i. pl. 36; *Gould, Syn. B. Austr.* part 1, pl. 7. fig. 3; *id. B. Austr. folio*, iii. pl. 3; *Bp. Consp.* i. p. 299; *Reichenb. Vög. Neuhol.* p. 91; *Pelz. Reis. Novara, Vög.* p. 64; *Gould, Handb. B. Austr.* i. p. 279; *Gray, Hand-l. B.* i. p. 228, no. 3289.

Petroeca multicolor, *Cab. Mus. Hein.* Th. i. p. 11; *Ramsay, Proc. Linn. Soc. N. S. W.* ii. p. 183, no. 178.

Adult. General colour above silky black, the feathers with grey bases; lesser wing-coverts black like the back: median series and inner greater coverts white, the latter with concealed blackish bases to the inner webs; outer greater coverts and primary-coverts blackish; quills blackish brown, the inner primaries with a spot of white near the base of the outer web; secondaries all white at base, the inner ones white along the outer web, forming a bar down the wing; tail blackish brown, the penultimate feather white at tip, and having a wedge-shaped mark of white running down the outer web; outer feather white, with an oblique brown mark towards the base of the inner web, and with a dark-brown mark near the tip of the outer web; forehead white; a narrow frontal line, lores, sides of face, and throat black, at base of the latter a concealed white spot; breast light scarlet, some of the side feathers with black margins; abdomen, lower flanks, and under tail-coverts white; thighs black; under wing-coverts and axillaries white, the outer ones edged with black; quills blackish below, brown along the edge of the inner web, and white at the base of the secondaries; "bill and feet black; iris very dark brown" (*Gould*). Total length 5 inches, culmen 0.45, wing 2.85, tail 2.1, tarsus 0.8.

The female has all the upper and under surface brown, with the breast strongly tinged with red (*Gould*).

Obs. A specimen labelled female from Tasmania, and obtained by the Antarctic Expedition, is exactly like the male, and is probably wrongly determined, as the sexes seem to differ in colour throughout this entire genus. A female from Western Australia (King George Sound) differs from all the eastern birds in its extremely narrow white forehead, and may probably indicate a second species.

Hab. Australia: Rockingham Bay, Port Denison, Wide-Bay district, Richmond and Clarence-River districts, New South Wales, interior of Australia, Victoria, South Australia. Tasmania. (*Cf. Ramsay, l. c.*)

| | | |
|--------------------------|--------------------|----------------------------|
| a. ♀ ad. sk. | Australia. | Linnean Society [P.]. |
| b. ♀ ad. sk. | King George Sound. | Sir George Grey [P.]. |
| c, d. ♀ ad.; e. Juv. sk. | Tasmania. | Ronald Gunn, Esq. [P.]. |
| f. ♂ ad. sk. | Tasmania. | J. B. Jukes, Esq. [P.]. |
| g, h, i. ♂ ad. sk. | Tasmania. | Antarctic Expedition [C.]. |
| k. ♂ ad. sk. | South Australia. | Sir George Grey [P.]. |

2. *Petroeca phœnicea*.

Petroica phœnicea, *Gould, P. Z. S.* 1836, p. 105; *id. Syn. B. Austr.* part 1, pl. 7. fig. 2; *id. B. Austr.* folio, iii. pl. 6; *Gray, Gen. B.* i. p. 183; *Bp. Consp.* i. p. 299; *Reichenb. Vög. Neuhol.* pp. 93, 289; *Pelz. Reis. Novara, Vög.* p. 64; *Gould, Handb. B. Austr.* i. p. 282; *Gray, Hand-l. B.* i. p. 228, no. 3291.

Petroeca phœnicea, *Cab. Mus. Hein.* Th. i. p. 11; *Ramsay, Proc. Linn. Soc. N. S. W.* ii. p. 183.

Adult male. General colour above slaty blackish, the least wing-coverts like the back; rest of the wing blacker, the inner, median, and greater coverts white; primary-coverts very narrowly tipped with white; quills black, the inner secondaries externally white, forming a bar down the wing, the outer secondaries with a white bar near the base of the outer web, smaller and higher up the feather on the primaries; tail blackish, the penultimate feather with the outer web edged with white near the base and at the tip, the outermost one white, with an oblique mark of brown along the inner web and another brown mark towards the tip of the outer web; a small frontlet of white; across the base of the forehead a blackish line; lores, sides of face and ear-coverts, chin and upper sides of throat slaty blackish; throat and breast rich scarlet-vermilion, the lower flanks, vent, and lower abdomen white; sides of body greyish, mixed with white; thighs blackish; under wing-coverts and axillaries dusky greyish, tipped with white; quills blackish below, the secondaries white at base of inner web; "bill and feet black; iris black" (*Gould*). Total length 5·2 inches, culmen 0·45, wing 3·15, tail 2·3, tarsus 0·7.

Adult female. Brown above, darker towards the rump and upper tail-coverts; base of forehead whitish; wings dark brown, the coverts narrowly tipped with whitish, the secondaries with conspicuous white bases, slightly tinged with rufous, and forming a wing-patch; primaries with an indistinct white mark about halfway up the feather, more distinct on the secondaries, which are edged with white; tail-feathers dark brown, the outermost white, obliquely marked with brown on the inner web, and having a spot of brown at the tip of the outer web; ear-coverts brown, with whitish shaft-lines; lores rufescent; under surface of body brown, the throat and centre of abdomen whitish, the fore neck and breast with a slight tinge of vermilion; thighs brown; under tail-coverts white, with longitudinal centres of dark brown; under wing-coverts and axillaries fulvous, with dusky bases; quills dark brown below, whitish along the inner web, the base of the secondaries conspicuously white. Total length 5·2 inches, culmen 0·45, wing 3, tail 2, tarsus 0·75.

Young male. Similar to the old female, but with orange instead of vermilion breast.

Hab. Australia: Wide-Bay district, Richmond and Clarence-River districts, New South Wales, Victoria, South Australia. Tasmania.

| | | |
|-------------------------|------------------|----------------------------|
| a. ♀ ad. st. | Australia. | Baron Langier. |
| b. ♂ juv. sk. | Australia. | J. Gould, Esq. [C.]. |
| c. ♂ ad. st. | New South Wales. | Sir George Grey [P.]. |
| d. ♂ ad. st. | South Australia. | Ronald Gunn, Esq. [P.]. |
| e. ♂ ad. sk. | Tasmania. | J. B. Jukes, Esq. [P.]. |
| f, g. ♂ ad. sk. | Tasmania. | Antarctic Expedition [C.]. |
| h. ♂ ad.; i. ♂ juv. sk. | Tasmania. | Sir E. Home [P.]. |
| k. ♂ ad. sk. | Tasmania. | |

3. *Petroeca multicolor*.

Red-bellied Flycatcher, *Lath. Gen. Syn. B.* ii. pt. 1, p. 343, pl. 4; *id. Gen. Hist. B.* vi. p. 209, pl. 3.

Muscicapa multicolor, *Gm. S. N.* i. p. 944 (*ex Lath.*).

Muscicapa erythrogaster, *Lath. Ind. Orn.* i. p. 479; *Shaw, Nat. Misc.* v. pl. 147; *id. Gen. Zool.* x. p. 400.

*Petroica modesta**, *Gould, P. Z. S.* 1837, p. 147 (♀); *Gray, Gen. B.* i. p. 183.

Petroica pulchella, *Gould, P. Z. S.* 1839, p. 142 (♂); *Gray, Gen. B.* i. p. 183.

Muscicapa dibapha, *Forster, Descr. Anim.* p. 267 (*ex Turdus dibaphus, Forster, Icon. ined.* 157, "Norfolk Island, Oct. 11, 1774").

Petroica multicolor, *Gray, Gen. B.* i. p. 183.

Petroica erythrogastra (*nec Lath.*), *Gould, B. Austr. folio.* iii. pl. 4; *Reichenb. Vög. Neuhol.* pp. 62, 289; *Bp. Consp.* i. p. 299; *Gray, Ibis*, 1862, p. 224; *Gould, Handb. B. Austr.* ii. p. 526; *Gray, Hand-l. B.* i. p. 228, no. 3292.

Adult male. General colour above black, the grey bases to the rump-feathers showing slightly; wings entirely black, with no white on the secondaries, only the median coverts and the inner greater ones pure white; tail black, the outer feathers very slightly pointed with white and a little browner; forehead and fore part of crown silky white; lores, feathers above the eye, sides of face, and throat black; rest of the under surface of body bright scarlet; the lower flanks, vent, and under tail-coverts white; thighs black, sides of breast black; under wing-coverts white, with blackish bases, those near the lower edge of the wing black, forming a spot; quills ashy brown below, browner along the edge of the inner web, the inner secondaries white at the base below. Total length 4·6 inches, culmen 0·55, wing 2·75, tail 2·1, tarsus 0·95.

Hab. Norfolk Island.

a. ♂ ad. sk. Norfolk Island, June 1855 Voyage of the 'Herald.'

(*Dr. F. M. Rayner*).

b. ♂ ad. sk. Norfolk Island, June 1865. Julius Brechley, Esq. [P.].

4. *Petroeca pusilla*.

Petroica pusilla, *Peale, U. S. Expl. Exp.* 1848, p. 93, pl. 25. fig. 3; *Hartl. in Wieg. Arch.* 1852, p. 100; *Cass. U. S. Expl. Exp.* p. 164, pl. 9. fig. 4; *Gray, Cat. B. Trop. Isl. Pacific Ocean*, p. 14; *Finsch & Hartl. Faun. Central-Polyn.* p. 70; *Gray, Hand-l. B.* i. p. 228, no. 3294.

Petroeca kleinschmidtii, *Finsch, P. Z. S.* 1875, p. 643; *id. Journ. Godeffr. Mus.* Heft xii. p. 6, Taf. 1. fig. 2.

Adult male. General colour above black, with a white band across

* *P. modesta*. The habitat of this species is given by Mr. Gould as "New Holland;" and if this locality had been correct, the name would have probably taken precedence over my name of *P. leggii*. It appears, however, that an error in the locality had taken place, as Mr. Gould subsequently, in both his later works, refers his *Petroica modesta* to the Norfolk-Island Robin, and translates his Latin diagnosis of *P. modesta* for the female of the latter bird.

† I have Dr. Finsch's personal assurance that this species is the same as *C. pusilla*.

the rump; wings black, the median coverts white with black bases, as also the inner greater coverts, forming a patch on the wing, the secondaries almost imperceptibly edged with white near the base; tail black, the two outer feathers white, with blackish bases and a blackish mark at the tip; forehead white, a narrow line across the base of the forehead, lores, sides of face, and throat black; remainder of under surface of body scarlet, the vent and under tail-coverts white; thighs black; under wing-coverts white, the edge of the wing black; quills ashy brown below, whitish along the base of the secondaries; "bill black; tarsi lighter; iris brown" (*Peale*). Total length 3·8 inches, culmen 0·45, wing 2·4, tail 1·55, tarsus 0·7.

Adult female. Differs from the male in being browner, the wing-coverts tipped with rusty brown; secondaries white at base, the primaries externally marked with white near the base; across the rump a white bar; upper tail-coverts black; tail-feathers black, slightly tipped with white, the penultimate feather blackish at base and at tip of outer web, the outermost entirely white, black at base of inner web; ear-coverts blackish brown; base of forehead whitish, the fore part of the crown mottled with white edges to the feathers; below the eye a line of whitish feathers; throat brown, the chin whitish; breast pale scarlet; abdomen, vent, and under tail-coverts white, the sides of the body, flank, and under wing-coverts ashy white, the axillaries washed with pale scarlet; thighs black. Total length 3·8 inches, wing 2·2, tail 1·4, tarsus 0·7.

Hab. Samoa or Navigators' Islands. Fiji group.

| | | |
|--------------------------|---------------|--------------------------|
| <i>a.</i> ♂ ad. sk. | Samoa. | Purchased. |
| <i>b, c.</i> ♂ ♀ ad. sk. | Upolu, Samoa. | Rev. S. J. Whitmee [C.]. |

5. *Petroeca similis*.

Petroeca similis, *Gray*, *Cat. B. Tropical Isl. Pacific Ocean*, p. 15; *id.* *Hand-l. B. i.* p. 228, no. 3295.

Adult male. General colour above sooty black; the wings a little browner, the inner median and greater wing-coverts white with brown bases to the inner webs; tail sooty brown, slightly tipped with white, the penultimate feather edged with white on the outer web, the outer feather white, light brown at base of inner web and tip of outer; a narrow frontal mark of white; sides of face sooty black like the head, the chin and sides of throat blackish; rest of under surface scarlet, the lower abdomen, vent, and under tail-coverts white; thighs black; sides of body white with greyish bases to the feathers; under wing-coverts white; quills ashy brown below, edged with brown along the inner web, and inclining to white at the base of the secondaries. Total length 4·2 inches, culmen 0·55, wing 2·5, tail 1·75, tarsus 0·8.

Hab. New Hebrides.

| | | |
|--------------------------|-------------------------|---|
| <i>a.</i> ♂ ad. sk. | Aneiteum, New Hebrides. | J. Macgillivray, Esq. [C.]. (Type of species.) |
| <i>b, c.</i> ♂ ♀ ad. sk. | Aneiteum, Aug. 1865. | Julius Brechley, Esq. [P.]. |

6. *Petroeca rhodinogastra*.

Saxicola rhodinogastra, *Drapiez, Ann. Gén. des Sci. Phys. Bruxelles*, ii. p. 340 (1819).

Muscicapa lathamii, *Vigors, Zool. Journ.* i. p. 410, pl. 13.

Petroica rhodinogastra, *Jard. & Selby, Ill. Orn., Addenda to vol. ii.* ; *Gray, Hand-l. B.* i. p. 228, no. 3297.

Petroica erythrogaster, *Gray, Gen. B.* i. p. 183.

Erythrodryas rhodinogaster, *Gould, P. Z. S.* 1842, p. 112; *id. B. Austr. folio*, iii. pl. 1; *Reichenb. Vög. Neuholl.* pp. 89, 289; *Gould, Handb. B. Austr.* i. p. 276; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 183.

Petroeca erythrogastra, *Cab. Mus. Hein. Th.* i. p. 11; *Bp. Consp.* i. p. 299.

Adult male. General colour above slaty black, the least and median wing-coverts like the back, the greater series and the quills browner; tail-feathers brown, edged with slaty black near the base; sides of face, sides of neck, and throat black; on the forehead a small spot of silky white; remainder of under surface of body rose-pink, the vent and under tail-coverts white; thighs black; flank-feathers pink, with grey bases separated from the pink by a white mark; under wing-coverts blackish, as also the quills below, which are white at the base of the secondaries; "bill black; feet black with the soles orange; iris black" (*Gould*). Total length 4·8 inches, culmen 0·45, wing 2·85, tail 2·5, tarsus 0·8.

Adult female. Has an indication of the white spot on the forehead; all the upper surface brown; wings and tail brown, with the markings on the primaries and secondaries larger and of a more buffy colour than in the males; throat brownish buff; chest and abdomen brownish grey; vent and under tail-coverts buff. (*Gould*.)

The young male during the first autumn closely resembles the female; for the first two months after they have left the nest they have the centre of each feather striated with buff. (*Gould*.)

Hab. Tasmania, Victoria, and South Australia.

a. Ad. sk. [Australia.] Zoological Society.

b. Ad. sk. South Australia. Sir George Grey [P.].

7. *Petroeca rosea**.

Muscicapa lathamii, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 245 (*nec Vigors*, 1825).

* The Crimson-bellied Flycatcher of Latham (*Gen. Syn. Suppl.* p. 221, pl. 134) would seem to represent a species of the section *Erythrodryas*, perhaps *Petroeca rosea*, but it is impossible to make out the species for certain. A male of the latter bird in incomplete dress, and retaining portions of the female plumage, might answer to it; but the absence of the black throat and of the white spot on the forehead prevent its being recognized as any of the species known up to the present time. Its synonymy is as follows:—

Crimson-bellied Flycatcher, *Lath. l. c.*

Muscicapa coccinogastra, *Lath. Ind. Orn. Suppl.* p. 1.

Petroica coccinogastra, *Gray, Gen. B.* i. p. 183; *id. Hand-l. B.* i. p. 228, no. 3299.

Petroica rosea, Gould, *P. Z. S.* 1839, p. 142; Gray, *Gen. B.* i. p. 183; *id.* *Hand-l. B.* i. p. 228, no. 3298.

Erythrodryas rosea, Gould, *P. Z. S.* 1842, p. 112; *id.* *B. Austr. folio*, iii. pl. 2; *Reichenb. Vög. Neuholl.* pp. 89, 289; *Bp. Consp.* i. p. 299; Gould, *Handb. B. Austr. folio*, iii. pl. 2; Ramsay, *Pr. Linn. Soc. N. S. W.* ii. p. 183.

Adult male. General colour above leaden grey, the least wing-coverts coloured like the back; median and greater coverts, as well as the secondaries, brown, edged with grey like the back, the primaries black with browner edges; tail-feathers blackish with minute tips of white, the three outermost with a large wedge-shaped mark of white at the tip of the inner web, increasing in extent towards the outermost; sides of face, sides of neck, and throat leaden grey, the lower throat slightly washed with pink; fore neck and breast deep rose-pink; the abdomen, vent, and under tail-coverts white; thighs black; under wing-coverts slaty grey, edged broadly with white; quills dusky brown, white at the base of the secondaries; "bill and feet blackish brown; gape and soles of the feet yellow." Total length 4·8 inches, culmen 0·45, wing 2·6, tail 2·3, tarsus 0·6.

Adult female. Different from the male. Above dark ashy brown, greyer on the rump; least and median wing-coverts like the back, the greater coverts and quills dark brown, the primaries with a whitish spot near the base of the outer web, the secondaries white at the base; tail dark brown, the outer feather white with an oblique mark of brown from the base up the inner web, the penultimate one with a large wedge-shaped mark of white on the inner web; sides of face dark brown, the ear-coverts with whitish shaft-lines; on the forehead a small band of buff; under surface of body dull white with a tinge of pink on the breast, flanks browner; thighs dark brown; under wing-coverts whitish; quills dark brown below, whitish at the base of the secondaries. Total length 4·5 inches, culmen 0·5, wing 2·55, tail 2·2, tarsus 0·6.

Hab. Australia: Rockingham Bay, Port Denison, Wide-Bay district, Richmond and Clarence-River districts; New South Wales; Interior; Victoria. (*Ramsay, l. c.*)

a. ♂ ad. sk. Australia.

Linnean Society [P.].

(*M. lathamii*, Vig. & Horsf., *l. c.*)

b, c. ♂ ♀ ad. sk. Australia.

8. *Petrœca goodenovii*.

Muscicapa goodenovii, Vig. & Horsf. *Tr. Linn. Soc.* xv. p. 245.

Petroica goodenovii, Jard. & Selby, *Ill. Orn. Add. to vol. ii.*; Gould, *Syn. B. Austr.* part 1, pl. 7. fig. 1; *id.* *B. Austr. folio*, iii. pl. 5; Gray, *Gen. B.* i. p. 183; *Bp. Consp.* i. p. 299; *Reichenb. Vög. Neuholl.* pp. 109, 289; Gould, *Handb. B. Austr.* i. p. 280; Gray, *Hand-l. B.* i. p. 228, no. 3290.

Petrœca goodenovii, Cab. Mus. Hein. Th. i. p. 11; Ramsay, *Pr. Linn. Soc. N. S. W.* ii. p. 183.

Adult male. General colour above black, slightly mottled with white on the rump, the feathers being subterminally marked with

white; wings black, the median and inner greater coverts as well as the outer webs of the inner secondaries white, forming a longitudinal bar down the wing; all the secondaries white at the base, the inner primaries with a white spot at about a third of their length from the base; tail-feathers black, slightly tipped with white, the outermost almost entirely white, with a black oblique mark from the base across the inner web, and a spot of dark brown at the tip of the outer web; the penultimate and third feathers with a white mark on the outer web; sides of head and of neck and throat black; forehead and vertex scarlet; fore neck and breast scarlet; thighs black; sides of body, abdomen, under tail-coverts, under wing-coverts, and axillaries white, the edge of the wing black, edged with white; quills ashy brown below, white at the base of the secondaries: "bill and feet blackish brown, the soles of the feet yellow; iris blackish brown" (*Gould*). Total length 4·8 inches, culmen 0·55, wing 2·55, tail 2·0, tarsus 0·7.

Adult female. Different from the male. General colour above earthy brown, with a faint rusty tinge on the forehead; wings dark brown, the smaller coverts edged with brown, the greater series edged and tipped with buffy white; quills dark brown, the primaries narrowly, the secondaries more broadly edged with buffy white, the secondaries with broad whitish bases, concealed by the tips of the greater coverts; tail-feathers dark brown, edged with lighter brown, the penultimate feather white along the outer web, the outermost one almost entirely white, with an oblique mark of dark brown from the base up the inner web; ear-coverts light rusty brown; feathers round the eyes, lores, cheeks, and under surface of body dull white, the sides of the breast and flanks brown; thighs brown; under wing-coverts creamy white, as also the inner lining of the quills. Total length 4·5 inches, culmen 0·4, wing 2·35, tail 1·8, tarsus 0·7.

Hab. Australia: Wide-Bay district; Richmond and Clarence-River districts; New South Wales: Victoria; Interior; South Australia. (*Ramsay, l. c.*)

| | | |
|-------------------|------------------|--|
| a. ♂ ad. sk. | Australia. | Linnean Society [P.] (Type of species.) |
| b, c. ♂ ♀ ad. st. | New South Wales. | |
| d. ♂ ad. st. | New South Wales. | J. Gould, Esq. [P.] |
| e. ♂ ad. sk. | Australia. | Sir D. Cooper [P.] |
| f. ♀ ad. sk. | Australia. | Purchased. |

9. *Petroeca ramsayi*.

Petroeca goodenovii, *auctt. ex Austr. occidentali* (*nec Vig. & Horsf.*).

Adult male. Similar to *P. goodenovii*, but distinguished by the centre of the throat being scarlet and not black. Total length 4·5 inches, culmen 0·4, wing 2·5, tail 1·85, tarsus 0·7.

Adult female. Similar to the hen of *P. goodenovii*, but having the forehead and anterior crown dull brick-red. Total length 4·2 inches, culmen 0·45, wing 2·45, tail 1·8, tarsus 0·7.

Hab. Western Australia.

| | | |
|-------------------|----------------------------------|--------------------------|
| a, b. ♂ ♀ ad. sk. | Peron's Peninsula, Shark Bay. | F. M. Rayner, Esq. [C.]. |
| c. ♂ ad. sk. | Australia. | Sir T. Mitchell [P.]. |
| d. ♂ juv. sk. | Australia. | Purchased. |
| e. ♀ ad. sk. | Swan River. | |

10. *Petræca bicolor*.

Grallina bicolor, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 233.

Petroica bicolor, *Swains. Zool. Illustr.* 2nd ser. i. pl. 43; *Gould, B. Austr. folio*, iii. pl. 7; *Bp. Consp.* i. p. 299; *Reichenb. Vög. Neu-holl.* pp. 94, 289.

*Petræca cucullata**, *Gray, Gen. B.* i. p. 183; *Cab. Mus. Hein. Th.* i. p. 11; *Gray, Hand-l. B.* i. p. 229, no. 3300.

Melanodryas cucullata, *Gould, Handb. B. Austr.* i. p. 283; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 183.

Adult male. General colour above glossy black, the rump and scapulars pure white; wings black, the secondaries tipped with white, and two of the inner ones externally edged with white, forming a line down the wing; a large alar speculum caused by the white bases to the secondaries, the primaries having a white bar at a little distance from the base, gradually decreasing in extent towards the outer primaries and confined to the inner web, the two outer quills with no white at all on them; tail white with a broad subterminal band of black before a narrow white tip, the two centre feathers black, the next one on each side black, the outer web white for two thirds of its length; sides of face and throat black, the feathers of the lower throat tipped with white where they adjoin the fore neck, which, like the remainder of the under surface, is entirely white: under wing-coverts white with black bases; quills ashy blackish below, the secondaries white at base, the primaries white for a great part of the inner web; bill black; feet blackish brown; iris brownish black" (*Gould*). Total length 5·2 inches, culmen 0·6, wing 3·7, tail 2·6, tarsus 0·9.

Adult female. Different from the male. General colour above ashy brown, with more or less of a greyish shade; the wings darker brown with lighter brown edges; primaries with a white bar on inner web, the innermost primaries and the secondaries white at base of both webs, forming an alar speculum, the inner secondaries margined, and all tipped, with white; tail-feathers dark brown, white at the base of all but the two centre ones, the outer ones tipped with white; lores, ring round the eye, and sides of face dull white, mottled with dusky brown bases to the feathers; ear-coverts dark brown, with dull whitish shaft-lines; under surface of body ashy grey, white on the lower abdomen, vent, and under

* The name of *cucullata* cannot be adopted for this species, as the words in the original description, "the whole of the wings and tail black, the lesser quills fringed with white," can never apply to *Petræca bicolor*. The synonymy of the supposed species is as follows:—

Hooded Flycatcher, *Lath. Gen. Syn. Suppl.* ii. p. 223.

Muscicapa cucullata, *Lath. Ind. Orn. Suppl.* p. li.

tail-coverts; under wing-coverts white, the axillaries dark brown, white near the base of the outer web; quills dull brown below, white at base of secondaries and across the inner web of the primaries. Total length 5·7 inches, culmen 0·55, wing 3·6, tail 2·7, tarsus 0·85.

Young. Immediately after leaving the nest is dark brown with a stripe of light brown down the centre of each feather, the markings of the wings and the tail resembling those of the adult; under surface like upper, but becoming white as it proceeds towards the vent. (*Gould.*)

Hab. Australia: Wide-Bay, Richmond, and Clarence-River districts; New South Wales; Interior; Victoria; South Australia; West Australia. (*Ramsay, l. c.*)

| | | |
|------------------------------|---------------------------------|---|
| a. ♂ ad. sk. | Australia. | Linnean Society [P.] (Type of <i>M. bicolor.</i>) |
| b. ♂ juv. sk. | Australia. | |
| c. ♀ ad. st. | Australia. | J. Gould, Esq. [P.] |
| d. ♂ ad. sk. | Yarrundi River. | J. Gould, Esq. [P.] |
| e. ♂ juv. st. | Yarrundi River. | J. Gould, Esq. [C.] |
| f. ♂ juv. sk. | South Australia. | J. Gould, Esq. [C.] |
| g, h. ♂ ♀ ad.; i. ♂ imm. sk. | South Australia. | Sir George Grey [P.] |
| k. ♂ imm. sk. | River Murray. | Sir George Grey [P.] |
| l. ♂ ad. st. | West Australia. | J. Gould, Esq. [C.] |
| m. ♀ ad. sk. | York, W. Australia. | J. Gould, Esq. [C.] |
| n, o. ♂ ad. sk. | Interior of South Australia. | Capt. Sturt [P.] |
| p. ♂ ad. sk. | Australia. | Sir T. Mitchell [P.] |

Subsp. a. *Petrœca picata*.

Melanodryas picata, *Gould, Handb. B. Austr. i. p. 285.*

Petroica picata, *Gray, Hand-l. B. i. p. 229, no. 3301.*

Adult male. Similar to *P. cucullata*, but smaller, and distinguished by the less amount of black on the tail, and the broader edging of white to the inner secondaries. In the outer tail-feather the white extends round the black, and is carried along the whole length of the outer web. Total length 5·8 inches, culmen 0·55, wing 3·5, tail 2·55, tarsus 0·85.

Hab. Northern and North-western Australia.

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| a, b, c. ♂ ad.; d. ♀ ad. sk. | N.W. Australia. | J. R. Elsey, Esq. [P.] |
| e, f. ♂ ♀ ad. sk. | "Dépôt," Feb. 26, 1856. | J. R. Elsey, Esq. [P.] |

11. *Petrœca toitoi*.

Muscicapa toitoi, *Garnot, Voy. Coquille, Zool. i. p. 590, pl. 15. fig. 3.*
Miro toitoi, *Gray, in Dieffenb. Trav. ii. App. p. 191; Bp. Conspect. i. p. 200.*

Petroica toitoi, *Gray, Voy. Ereb. & Terr. Birds, p. 6; id. Gen. B. i. p. 183; id. Ibis, 1862, p. 223; Pelz. Reis. Novara, Vög. p. 65; Gray, Hand-l. B. i. p. 229, no. 3305.*

Myiomoira toitoi, *Reichenb. Syst. Av. Taf. lxxvii. fig. 11*; *Buller, B. N. Zeal. p. 124*; *Finsch, J. f. O. 1872, p. 163, 1874, p. 189*; *Sharpe, Voy. Ereb. & Terr. Birds, App. p. 26*.
Muscicapa albopectus, *Ellman, Zool. 1861, p. 7465*.

Adult male. General colour above black with a distinct, though small, frontal spot of white; wings black, the inner primaries with a white bar a little way from the base, represented by an ovate spot of white on the outer web; the secondaries distinctly white at the base, forming a large wing-patch, the white extending for the greater part of the outer web on some of the inner secondaries; tail black, the three outer tail-feathers white, increasing in extent towards the outermost, each feather obliquely marked with black across the inner web from the base upwards and having a black oblique apical mark, these dark portions of the feathers decreasing in extent towards the outermost as the white increases; sides of face, sides of neck, throat, and fore neck black; remainder of under surface white, the feathers black at base, the flanks somewhat washed with grey; thighs black, tipped with white; under wing-coverts white, blackish at base, the edge of the wings black; quills blackish below, the secondaries broadly white at the base; "bill and tarsi blackish brown, toes paler, yellow on their inner surface; iris black" (*Buller*). Total length 5 inches, culmen 0.4, wing 2.7, tail 2.1, tarsus 0.85.

Adult female. Differs from the male. Ashy brown above, the feathers with indistinct ashy-white shaft-lines; upper tail-coverts darker brown than the back, the outer feathers white, obliquely marked with brown from the base across the inner web, and tipped with brown; the penultimate feather with a large triangular patch of white at the tip of the inner web, the third with an indistinct spot of white at the tip of the inner web; wings dark brown, the primaries obscurely barred with dull whitish, forming a diagonal bar across the wing; the secondaries conspicuously white at the base, forming a large wing-patch somewhat tinged with brown; at the base of the forehead a small white spot; lores and a ring of feathers round the eye dull whitish; sides of face dark ashy brown, mottled with linear spots of white on the feathers; rest of under surface of body whitish, the sides of the body and thighs ashy brown; under wing-coverts and axillaries buffy white; quills dark brown below, barred with white near the base, broader across the inner secondaries. Total length 4.4 inches, culmen 0.45, wing 2.55, tail 1.8, tarsus 0.85.

Hab. North Island, New Zealand; Chatham Islands.

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| <i>a, b.</i> ♂ ad. sk. | New Zealand. | Colonial Museum, Wellington [E.]. |
| <i>c.</i> ♀ ad. sk. | New Zealand. | Lieut. A. Smith [P.]. |
| <i>d.</i> ♂ ad.; <i>e, f.</i> ♀ ad. sk. | New Zealand (<i>F. Strange</i>). | Capt. Stokes [P.]. |
| <i>g.</i> ♂ ad. sk. | Chatham Islands. | New Zealand Co. [P.]. |

12. *Petroeca macrocephala* *.

- Great-headed Titmouse, *Lath. Gen. Syn.* ii. p. 557, pl. lv.
Parus macrocephalus, *Gm. S. N.* i. p. 1013 (*ex Lath.*); *Steph. Gen. Zool.* v. p. 51, pl. 5.
Pachycephalus ? *australis*, *Steph. Gen. Zool.* xiii. p. 267.
Rhipidura macrocephala, *Gray, in Dieffenb. Voy.* ii. *App.* p. 190.
Miro forsterorum, *Gray, t. c.* p. 191.
Miro dieffenbachii, *Gray, t. c.* p. 191.
Petroica macrocephala, *Gray, Voy. Ereb. & Terr. Birds*, p. 6; *id. Gen. B.* i. p. 183; *id. Ibis*, 1862, p. 222; *id. Hand-l. B.* i. p. 229, no. 3307.
Petroica dieffenbachii, *Gray, Gen. B.* i. p. 183; *id. Ibis*, 1862, p. 223; *id. Hand-l. B.* i. p. 229, no. 3306; *Hutton, Cat. N. Zeal. B.* p. 12.
Turdus minutus, *Forster, Icon. ined.* 149; *id. Descr. Anim.* p. 83.
Miro macrocephala, *Bp. Consp.* i. p. 299.
Miro dieffenbachii, *Bp. t. c.* p. 300.
Muscicapa macrocephala, *Ellman, Zool.* 1861, p. 7465.
Muscicapa minuta, *Ellman, t. c.* p. 7465.
Myiomoira macrocephala, *Finsch, J. f. O.* 1872, p. 163; *Buller, B. N. Zeal.* p. 126; *Finsch, J. f. O.* 1874, p. 188; *Sharpe, Voy. Ereb. & Terr. Birds, App.* p. 26.
Myiomoira dieffenbachii, *Finsch, Tr. N. Zeal. Inst.* vii. p. 229.

Adult male. General colour above black, with a distinct frontal spot of white; wings black, the quills browner, the greater coverts slightly tipped with white; inner primaries with a white bar at about one third of their length from the base, represented on the outer web by an oblong white mark; secondaries white at the base, forming a conspicuous wing-spot, some of the inner ones edged with white along the outer web, the innermost secondaries entirely blackish brown; tail black, the three outer feathers white, obliquely black on the inner webs, and marked with a blackish spot at the tip, this dark marking increasing on the penultimate and the next feather, which has the outer web entirely black; entire sides of face and throat black; rest of under surface light yellow, deepening into saffron-yellow round the throat, and fading into whitish on the under tail-coverts; sides of body washed with greyish; thighs black; under wing-coverts and axillaries white with dusky grey bases; quills dull brown below, edged with light brown along the inner webs, with a broad white bar across the basal part of the

* *PETROECA FORSTERI*.

Petroica, sp., *Gray, P. Z. S.* 1859, p. 161.

Petroica forsteri, *Gray, Cat. B. Trop. Isl. Pacific Ocean*, p. 15.

Hab. Isle of Pines, New Caledonia.

This bird is mentioned here merely for the purpose of showing that it is a myth. Mr. Gray refers as a synonym the name of *Turdus minutus*, Forster (*Descr. Anim.* p. 84), but this, from the figure and description, is *Petroeca macrocephala* of New Zealand. At page 257 of the same work, Forster casually mentions having observed *Turdus minutus* on Spruce-Tree Island, New Caledonia; and this is apparently Mr. Gray's authority for naming the species *Petroica forsteri*, on the chance of its turning up in the locality. Should a *Petroeca* occur in New Caledonia, it would very likely be *P. similis* of the New Hebrides.

secondaries. Total length 4·9 inches, culmen 0·5, wing 2·8, tail 2·1, tarsus 0·8.

Adult female. Different from the male. General colour above sooty brown, the wings rather darker than the back, and exhibiting a white speculum, formed by a white band across the inner secondaries at about one third of the distance from the base; on some of the inner primaries an indistinct mark of brown on the outer web; across the rump an indication of a buff-coloured band; upper tail-coverts black; tail-feathers black, with a quadrate spot of white on the inner web of the third feather, the penultimate one with a broad band of white extending obliquely across both webs, and much larger on the outermost, which is obliquely white across the central half; on the forehead a large white spot; ear-coverts and feathers below the eye black with white shaft-lines; under surface of body yellowish, the throat whiter, washed on the sides with blackish; thighs blackish; under wing-coverts white with black bases; quills blackish, white at the base of the secondaries. Total length 5·2 inches, culmen 0·5, wing 2·9, tail 2·3, tarsus 1.

Young. In the young of both sexes the yellow is reduced to a scarcely perceptible tinge, and in some examples is altogether wanting. In the young male the breast is obscurely mottled with brown, and in the young female these markings extend to the flanks also. (*Buller.*)

Hab. South Island, New Zealand; Chatham Islands; Auckland Islands.

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| <i>a, b.</i> ♂ ♀ ad. st. | New Zealand. | New Zealand Co. [P.]. |
| <i>c.</i> ♀ ad. sk. | New Zealand. | New Zealand Co. [P.]. |
| <i>d.</i> ♂ ad. sk. | New Zealand. | Dr. Sinclair [P.]. (Type |
| <i>e.</i> ♂ ad. sk. | New Zealand. | |
| <i>f, g, h.</i> ♂ ad. sk. | New Zealand (<i>F. Strange</i>). | Capt. Stokes [P.]. |
| <i>i.</i> Ad. sk. | New Zealand. | Henry Wharton, Esq. [P.]. |
| <i>k.</i> ♂ ad. sk. | Auckland Islands. | Antarctic Expedition [P.]. |

13. *Petrœca vittata.*

Muscicapa vittata, *Quoy et Gaimard, Voy. de l'Astrol.* i. p. 173, pl. 3. fig. 2.

Petrœca fusca, *Gould, B. Austr. folio*, iii. pl. 8; *Gray, Gen. B.* i. p. 183; *Bp. Consp.* i. p. 299; *Reichenb. Vög. Neuhol.* pp. 95, 289; *Diggle's, Orn. Austr.* pl. 40. fig. 1.

Amaurodryas vittata, *Gould, Handb. B. Austr.* i. p. 286; *Ramsay, Fr. Linn. Soc. N. S. W.* ii. p. 183.

Petrœca vittata, *Gray, Hand-l. B.* i. p. 229, no. 3302.

Adult. General colour dusky brown with a slight olive tinge, the least wing-coverts like the back; median and greater series blackish brown, edged with lighter brown, the bastard wing margined with whitish, edge of the wing white; primary-coverts blackish; quills blackish, the inner primaries with a white spot near the base of the

- b. Chin and throat white, the orange of the chest not extending to the throat.
- a'. Upper tail-coverts white; head and upper surface of body black; primary-coverts white, forming an alar speculum. *insignis*, p. 183.
- b'. Upper tail-coverts not differing from the rest of the upper surface, which is brown with dark centres to the feathers; no alar speculum; the primary-coverts brown; chest and sides of body pale orange-rufous *borbonica*, p. 183.
- c'. Upper tail-coverts white; upper surface of body blackish brown; no alar speculum; chest above orange-chestnut; sides of body and rest of under surface dull white *salax*, p. 184.
- c. Chin and throat black.
- d'. Breast orange-chestnut.
- a''. Upper tail-coverts white, spotted with black; under wing-coverts white, with black bases *rubicola* ♂, p. 185.
- b''. Upper tail-coverts pure white, unspotted.
- a'''. Tail with scarcely any white at the base; the white, when present, not visible on spreading the tail, being always hidden by the upper tail-coverts.
- a⁴. Axillaries black. *maura*, p. 188.
- b⁴. Axillaries white, with concealed black bases.
- a⁵. Orange chest-patch large, occupying the whole breast and flanks. . . . *torquata*, p. 190.
- b⁵. Orange chest-patch restricted to the chest and upper breast, the flanks and sides white like the abdomen *sybilla*, p. 191.
- b'''. Tail for the most part white, which is easily distinguishable when the tail is spread.
- c⁴. Tail-feathers white on both webs for two thirds of their length. *hemprichi*, p. 193.
- d⁴. Tail-feathers white on the inner webs only for nearly their entire length *leucura*, p. 194.
- e'. Breast black like the throat; no orange-chestnut patch on the breast.
- c''. With the sides of the neck white, forming a conspicuous patch *albifasciata*, p. 198.
- d''. With no white patch on the sides of the neck, which are entirely black *caprata*, p. 195.

1. *Pratincola rubetra*.

The Whinchat.

Le Grand Traquet ou Le Tarier, *Briss. Orn.* iii. p. 432, pl. 24. fig. 1; *Daubent. Pl. Enl.* vi. pl. 678. fig. 2.

Le Traquet du Sénégal, *Briss. Orn.* iii. p. 441, pl. 20. fig. 3; *Buff. Nat. Hist. Ois.* v. p. 228.

Motacilla rubetra, *Linn. Syst. Nat.* i. p. 332.

Motacilla senegalensis, *Linn. Syst. Nat.* i. p. 333 (*ex Briss.*).

Sylvia rubetra, *Scop. Ann.* i. p. 159; *Lath. Ind. Orn.* ii. p. 525.

- Sylvia zya*, Scop. *Ann. i.* p. 158.
Whinchat, Lath. *Gen. Syn.* iv. p. 454.
Sultry Wheatear, Lath. *tom. cit.* p. 455.
Motacilla fervida, Gm. *Syst. Nat.* i. p. 968.
Sylvia fervida, Lath. *Ind. Orn.* ii. p. 525.
Saxicola rubetra, Bechst. *Orn. Taschenb.* i. p. 219; Temm. *Man. d'Orn.* i. p. 244; Naum. *Vög. Deutschl.* iii. pl. 89. figs. 3, 4; Werner, *Atlas, Insectivores*, pl. 73; Gould, *B. Eur.* ii. pl. 93; Nordm. in *Demidoff, Voy. Russie Mérid.* iii. p. 133; Kjerb. *Orn. Dan.* pl. 18; Farr. *Brit. B.* i. p. 249; Thomps. *B. Irel.* p. 174; Schl. *Vög. Nederl.* pl. 91; Hewits. *Eggs Brit. B.* i. p. 108, pl. 30. fig. 2; Schl. *Nederl. Vög.* pl. 8. figs. 14, 15; Sundev. *Sc. Vögl.* pl. 11. figs. 3, 4; Fritsch, *Vög. Eur.* pl. 25. figs. 2, 3; Linderm. *Vög. Griechent.* p. 109; Newton, ed. *Yarr. Brit. B.* p. 344; Dresser, *B. Eur.* parts 23, 24, plate.
Pratincola rubetra, Koch, *Syst. Baier. Zool.* p. 191; Hartl. *Orn. W.-Afr.* p. 67; Gray, *Gen. B.* i. p. 179; Bp. *Consp.* i. p. 304; Cab. *Mus. Hein.* Th. i. p. 10; Hartl. *Orn. W.-Afr.* p. 67; Jaub. et Barth. *Lap. Rich. Orn.* p. 225; Hartl. *J. f. O.* 1861, p. 112; Degl. et Gerbe, *Orn. Europ.* i. p. 461; Locke, *Expl. Sci. Algér. Ois.* i. p. 211; Gray, *Hand-l. B.* i. p. 227, no. 3275; Doderl. *Arif. Sicil.* p. 113; Salvad. *Ucc. Ital.* p. 89; Gould, *B. Gt. Br.* ii. pl. xlvii.; Bettoni, *Ucc. Lomb.* tav. 4; Heugl. *Orn. N.O.-Afr.* i. p. 338; Blanf. *Geol. & Zool. Abyss.* p. 364; Shelley, *B. Egypt*, p. 81; Finsch, *Tr. Z. S.* vii. p. 323; Sharpe, *Cat. Afr. B.* p. 27; Walden in Dresser, *B. Eur.* parts 23, 24; Ussher, *Ibis*, 1874, p. 57; Severtz. *Turkest. Jevotn.* p. 65; Dresser, *Ibis*, 1875, p. 337; Irby, *B. Gibr.* p. 80.
Curruca rubetra, Leach, *Syst. Cat. Mamm. &c. Brit. Mus.* p. 24.
Enanthe rubetra, Vieill. *N. Dict.* xxi. p. 427; Roux, *Orn. Prov.* pl. 203.
Enanthe fervida, Vieill. *N. Dict.* xxi. p. 436.
Saxicola orampes, Brehm, *Isis*, 1828, p. 1282.
Saxicola pratorum, Brehm, *tom. cit.* p. 1282.
Saxicola septentrionalis, Brehm, *tom. cit.* p. 1282.
Saxicola rubecula (lapsu), Bp. *Faun. Ital. Ucc. Introd.* p. 8.
Fruticicola rubetra, Macgill. *Br. B.* ii. p. 271.
Rubetra major, Gray, *List Gen. B.* 1840, p. 22.
Pratincola fervida, Gray, *Gen. B.* i. p. 179; Hartl. *Orn. W.-Afr.* p. 67; Gray, *Hand-l. B.* i. p. 228, no. 3287.
Pratincola crampes, Brehm, Naum. 1855, p. 282.
Pratincola pratorum, Brehm, *tom. cit.* p. 282.
Pratincola septentrionalis, Brehm, *tom. cit.* p. 282.
Pratincola senegalensis, Hartl. *Orn. W.-Afr.* p. 68; Gray, *Hand-l. B.* i. p. 228, no. 3288.

Adult male in breeding-plumage. General colour above sandy buff, the feathers with longitudinal central streaks of blackish brown, imparting a striped appearance to the upper parts, the head rather darker and with broader streaks; rump and upper tail-coverts rufescent buff, streaked with brown, the latter mottled with arrow-head subterminal spots of blackish brown; wing-coverts black, with a large white patch formed by the inner median and greater coverts, some of the latter with brown edges near their tips, the adjacent ones being black, white on the inner web; primary-coverts white, tipped with blackish brown, forming an alar speculum; quills brown, edged narrowly with dull sandy buff, the bases of the inner primaries white, the secondaries narrowly tipped with buffy white; tail-feathers brown, narrowly edged with sandy colour, all of them

white at base, increasing in extent towards the outer ones, which have only the terminal third black, these feathers having also a narrow tip of pale buff to the inner web, the outermost feather white along the outer web; lores and a broad eyebrow white; sides of face and ear-coverts blackish brown, washed with golden brown; chin and sides of throat white, extending backwards to the sides of the neck; throat and under surface of body orange-rufous, the centre of the breast, abdomen, and under tail-coverts buffy whitish, deepening in colour on the latter; under wing-coverts ashy white, with bases of dull grey, the greater series entirely of the latter colour; axillaries pale orange-buff, dark brown towards the base of the inner web; quills dull brown below, ashy fulvous along the edge of the inner web; bill and legs black; iris dark brown. Total length 4·8 inches, culmen 0·45, wing 3·1, tail 1·85, tarsus 1.

Adult female in breeding-plumage. Differs from the male in being more fulvous above, the dark centres to the feathers less distinctly indicated, and all the dorsal plumes slightly tipped with a narrow fulvous edging; upper tail-coverts as in the male, but instead of a subterminal spade-shaped spot there is only a bar; lores and eyebrow fulvous, not so distinct as in the male; round the eye a ring of sandy-buff plumes; ear-coverts rufous, with narrow shaft-lines of buffy white; cheeks buffy white, with a spot of dark brown just below the ear-coverts; under surface of body as in the male, but very much paler, as also the under wing-coverts and axillaries; wing browner than in the male, the white patch less distinct and formed only by whitish edges and tips to the feathers; primary-coverts whitish at base, forming a small speculum; tail as in the male, but the feathers more broadly edged with dull fulvous at the tips. Total length 5 inches, culmen 0·5, wing 3, tail 2·08, tarsus 0·85.

Young male. Like the old female, and with pale whitish tips to the feathers of the upper surface; on the fore neck are several spots of blackish brown.

Hab. Europe, migrating in winter to Senegambia, the Gold Coast, and to North-eastern Africa.

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| <i>a, b.</i> ♂ ♀ ad. st. | Cambridgeshire. | Mr. J. Baker [C.]. |
| <i>c.</i> ♂ ad. st. | Stratford-on-Avon. | Mr. Quartermaine [C.]. |
| <i>d.</i> Juv. st. | Surbiton, Sept. 2, 1872. | Dr. Günther [P.]. |
| <i>e.</i> Juv. sk. | Pagham, Sussex, Sept. 9, 1873. | Dr. Günther [P.]. |
| <i>f.</i> Juv. sk. | Pagham, Sept. 5, 1874. | R. B. Sharpe, Esq. [P.]. |
| <i>g.</i> ♂ ad. sk. | Belgium, May 2, 1872. | Brussels Museum [P.]. |
| <i>h.</i> ♀ imm. sk. | Belgium, Dec. 5, 1871. | Brussels Museum [P.]. |
| <i>i.</i> ♂ ad. sk. | Heligoland, May 1877 (<i>L. Gütke</i>). | Henry Seebohm, Esq. [P.]. |
| <i>k.</i> ♂ ad. sk. | Malaga, Spain, April 1, 1872. | Howard Saunders, Esq. [P.]. |
| <i>l.</i> ♀ ad. sk. | Mount Carmel, Palestine. | Causton Tristram [C.]. |
| <i>m.</i> ♀ ad. sk. | Persia. | Purchased. |
| <i>n.</i> ♀ juv. sk. | Rairo, Hubab. | W. T. Blanford, Esq. [C.]. |
| <i>o.</i> ♀ ad. st. | West Africa. | |

2. *Pratincola macrorhyncha*.

Pratincola rubetraoides, *Jerd. B. Ind.* iii. *App.* p. 872 (*ex Jameson, MS.; descr. nullâ*); *Dresser, B. Eur.* parts 23, 24 (*sub P. rubetra*); *Hume, Str. F.* 1877, p. 239.

Pratincola rubetra, *Hume, Ibis*, 1869, p. 355, et 1871, p. 28 (*nec L.*).

Pratincola macrorhyncha, *Stoliczka, J. A. S. B.* xli. p. 238; *Hume, Str. F.* 1876, p. 40, 1877, pp. 131, 241, 244, 1878, p. 53.

Pratincola jamesoni, *Hume, Str. F.* 1877, p. 239 (*nom. emend.*).

Adult male. A broad stripe over the eyes and over the greater portion of the ear-coverts white, with a slight buffy tinge; lower part of the lores dusky; chin, throat, and entire lower parts, including lower tail-coverts and tibial plumes, white with a yellowish tinge, and a very feeble rufescent tinge on breast and flanks; wing-lining and axillaries pure white, the former slightly mottled with dusky; forehead, crown, occiput, nape, back, and scapulars light sandy buff, striated longitudinally with hair-brown; rump and upper tail-coverts white, most of the feathers tinged towards their tips with pale rusty buff; primaries and secondaries hair-brown, margined on the outer webs with light buff and tipped with yellowish white, the primaries more narrowly, the secondaries more broadly; tertiary greater coverts, or, perhaps I should call them, lower scapulars, white; tertiaries and greater and median secondary coverts deep brown, broadly margined with pale, more or less rufescent buff; entire visible portion of lesser coverts pale sandy buff; edge of wing and outer webs of earlier greater primary-coverts pure white; tail hair-brown, all the feathers margined on the outer webs with sandy buff or light yellowish brown, the outer web of the outermost feather almost entirely of this colour; all the feathers, except the central pair, with almost the entire inner webs white; the outermost pair have an irregular subterminal brown band from 0·2 to 0·3 inch wide on this web, but the rest have only a small patch of brown near the shaft close to the tip, the pair next the centre having the patch rather larger: there are traces of a dark streak from the base of the lower mandible down either side of the throat, expanding on the sides of the breast; doubtless in breeding-plumage this streak and patch are black or blackish: "bill and feet black; iris brown." Total length 6 inches, culmen 0·7, wing 3, tail 2·12, tarsus 0·97. (*Hume.*)

Breeding-plumage. Two or three of both my males and females have the lower parts of the lores, checks, ear-coverts, and entire sides of the throat (leaving only a narrow pure white stripe down the centre of the throat) black, the feathers only a little tipped with pale sandy, which doubtless in the breeding-season entirely disappears; also the lesser and median and the secondary greater wing-coverts and the winglet have become nearly black, only very narrowly edged with sandy buff, which colour also seems in the course of disappearing. (*Hume.*)

Adult female in winter plumage. Similar to the male but smaller,

and showing the dark streak and patch much less. Total length 5·5 inches, culmen 0·7, wing 2·9, tail 2, tarsus 0·93. (*Hume.*)

Obs. For the differences in plumage between this species and *P. rubetra*, cf. Mr. Hume's articles (*l.c.*).

Hab. North-western provinces of India.

3. *Pratincola insignis*.

Saxicola insignis, *Hodgs. in Gray's Zool. Misc.* p. 83.

Pratincola insignis, *Blyth, J. A. S. B.* xvi. p. 129; *Bp. Consp.* i. p. 305; *Jerd. B. Ind.* ii. p. 127; *Gray, Hand-l. B.* i. p. 228, no. 3284; *Dresser, B. Eur.* parts 23, 24, note.

Pratincola robustior, *Marsh, Str. F.* 1875, p. 331.

Adult male (type of species). General colour above black, the rump-feathers greyer, with white tips, adjoining the upper tail-coverts, which are pure white; sides of neck white, almost forming a collar round the hind neck, the lateral feathers of which are white tipped with black; scapulars black, with sandy brown edges; wings black, with a large white patch, formed of the innermost of all the coverts (lesser, median, and greater), together with the bases of all the secondaries, which are also tipped with white; primary-coverts and base of primaries white, forming a large alar speculum; secondaries with narrow margins of sandy brown, more narrow on the primaries; tail-feathers black, white at the base, but concealed by the upper tail-coverts; the outer feather a little browner towards the tip, the outermost narrowly edged with light brown along the outer web; sides of face, cheeks, and ear-coverts black; throat and sides of neck white; fore neck and breast orange-chestnut, the abdomen and under tail-coverts buffy whitish, the sides of the body washed with pale orange-chestnut; wing-coverts black, narrowly edged with white; axillaries white with black bases; quills blackish below, broadly white at the base of the inner webs, forming a large patch of white on the inner face of the wing. Total length 6·3 inches, culmen 0·55, wing 3·55, tail 2·5, tarsus 1·1.

Hab. Eastern Himalayas.

a. ♂ ad. sk.

Nepal.

B. H. Hodgson, Esq. [P.]

(Type of species.)

4. *Pratincola borbonica*.

Motacilla borbonica, *Bory de St. Vincent, Beytr. Naturg. Mascar.* p. 152.

Pratincola borbonica, *Schl. P. Z. S.* 1866, p. 422; *Grand. Rev. et Mag. de Zool.* 1867, pp. 88, 359; *Schl. et Poll. Faune Madag.* Ois. p. 94; *Sharpe, P. Z. S.* 1870, p. 394; *Dresser, B. Eur.* pts. 23, 24, note; *Hartl. Vög. Madag.* p. 119.

Adult male. General colour above dark earthy brown or chocolate, slightly varied with centres of more blackish brown; the lower back and rump slightly washed with rufous, the upper tail-coverts decidedly more rufescent; tail blackish brown, the feathers margined

with light brown, the outer ones paler towards the tips; wing-coverts and quills rather blacker than the back, and edged with lighter brown, becoming rufescent on the margins of the innermost secondaries; a white patch on the wing, formed by the innermost median and greater wing-coverts, which are also somewhat washed with brown externally; lores and a distinct eyebrow dull white; feathers in front of and below the eye and ear-coverts blackish, washed with reddish brown; sides of neck mixed with white, the bases to the feathers being white; cheeks and entire throat white; breast and sides of body orange-rufous, the middle of the abdomen and under tail-coverts buffy white; under wing-coverts and axillaries white, with the external bases black; "bill black: feet dark; iris brown" (*E. Newton*). Total length 5·3 inches, culmen 0·5, wing 2·6, tail 1·9, tarsus 0·85.

Adult female. Not unlike the male, but duller above and paler below, the white on the wing scarcely perceptible, the innermost greater coverts being ashy brown, edged or marked with white on the outer web. Total length 5·4 inches, culmen 0·55, wing 2·5, tail 2, tarsus 0·9.

Hab. Island of Réunion or Bourbon.

a, b. ♂ ad.; *c, d.* ♀ ad. sk. Réunion (*Bewsher*). R. B. Sharpe, Esq. [P.].

5. *Pratincola salax*.

Pratincola salax, *J. & E. Verr. Rev. et Mag. de Zool.* 1851, p. 307; *Hartl. Orn. Westaf.* p. 67; *Cass. Pr. Philad. Acad.* 1859, p. 39; *Hartl. J. f. O.* 1861, p. 112; *Gray, Ann. N. H.* (3) x. p. 443; *id. Hand-l., B. i.* p. 228, no. 3279; *Sharpe, P. Z. S.* 1871, p. 615; *Reichen. J. f. O.* 1875, p. 50.

Pratincola olax, *Strickl. Contr. Orn.* 1852, p. 133.

Adult male. General colour above blackish brown, with almost obsolete edgings of sandy brown, a little more distinct on the scapulars; upper tail-coverts white; tail-feathers blackish brown, with edgings of lighter brown on the outermost feather; wings blackish brown, with remains of pale tips on a few of the greater coverts and inner secondaries; a large white patch on the wing, caused by the inner median and greater coverts, the innermost secondaries being also white at the base of the outer web; lores buff, extending above the fore part of the eye; sides of face dark brown; sides of neck mottled with white, the feathers being edged with dull white; throat ashy whitish, with dark brown base to the feathers; fore neck and chest rufous, forming a patch which contrasts with the rest of the under surface, which is dull ashy white, the thighs darker brown; under wing-coverts and axillaries dull white with dusky bases; quills dark brown below, whitish brown along the inner web. Total length 5·2 inches, culmen 0·5, wing 2·8, tail 2·1, tarsus 1.

Adult female. Different from the male. Above earthy brown, with darker brown centres to the feathers, imparting to the upper surface a somewhat mottled appearance; upper tail-coverts white;

tail-feathers dark brown, with obsolete narrow margins of lighter brown; wings brown, with a patch of white almost as distinct as in the male; primary-coverts and tips of secondaries with obsolete whitish-brown edges; lores buffy white; sides of face brown, with whitish shaft-lines to the ear-coverts; throat ashy whitish, with dark bases to the feathers; fore neck and breast rufous, the rest of the under surface white; the sides of the upper breast brown, the feathers of this part of the body having white bases; under wing-coverts and axillaries brown, with paler brown edges; quills below dark brown, lighter brown along the inner webs. Total length 4.4 inches, culmen 0.45, wing 2.45, tail 1.85, tarsus 0.8.

Young [male]. Blackish brown like the adult, with longitudinal fulvous-brown streaks; wing-coverts tipped with lighter brown; white upper tail-coverts edged with dusky; tail black, tipped with white; under surface of body rufous, the throat paler, and mottled with blackish bases to the feathers.

Obs. The Gaboon birds are smaller than those from the Cameroons, but this may be owing to their being females. In this species the female appears to have a red breast-patch like the male.

Hab. West Africa: Cameroons and Gaboon.

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| a. ♂ ad. sk. | Cameroons Mountains, 7000 ft. | Major Burton [P.] |
| b. ♂ juv. sk. | Mount Isabel, Cameroons. | Major Burton [P.] |
| c. ♀ ad. sk. | Gaboon (<i>Du Chaillu</i>). | R. B. Sharpe, Esq. |
| d. ♀ ad. sk. | Gaboon. | R. B. Sharpe, Esq. |

6. *Pratincola rubicola*.

The Stonechat.

Le Traquet, *Briss. Orn.* iii. p. 428, pl. 23. fig. 2; *Daubent. Pl. Enl.* vi. pl. 678. fig. 1.

Motacilla rubicola, *Linn. Syst. Nat.* i. p. 332.

Stone-chat, *Lath. Gen. Syn.* iv. p. 448.

Sylvia muscipeta, *Scopoli, Ann.* i. p. 159.

Sylvia rubicola, *Lath. Ind. Orn.* ii. p. 523.

Saxicola rubicola, *Bechst. Orn. Taschenb.* i. p. 220, cum figs. 1, 2; *Temm. Man. d'Orn.* i. p. 246; *Naum. Vög. Deutschl.* iii. pl. 90. figs. 3, 4, 5; *Werner, Atlas, Insectivores*, pl. 74; *Gould, B. Eur.* ii. pl. 94; *Nordm. in Demid. Voy. Russie Mérid.* iii. p. 132; *Yarr. Brit. B.* i. p. 245; *Kjærh. Orn. Dan.* pl. 18; *Thomps. B. Irek.* i. p. 172; *Schl. Vog. Nederl.* pl. 92; *Hewits. Eggs Brit. B.* i. p. 107, pl. 30. fig. 1; *Schl. Nederl. Vog.* pl. 8. fig. 16; *Sundev. Sv. Fogl.* pl. 66. fig. 2; *Fritsch, Vög. Eur.* tab. 25. fig. 4; *Linderm. Vög. Griechentl.* p. 109; *Newton, ed. Yarr. Brit. B.* p. 339; *Dresser, B. Eur.* parts 23, 24, plate.

Pratincola rubicola, *Koch, Syst. Baier. Zool.* p. 192; *Gray, Gen. B.* i. p. 179; *Cab. Mus. Hein. Th.* i. p. 10; *Bp. Consp.* i. p. 304; *Hartl. Orn. W.-Afr.* p. 66; *Jaub. et Barth.-Lapomm. Rich. Orn.* p. 226; *Hartl. J. f. O.* 1861, p. 112; *Degl. et Gerbe, Orn. Eur.* i. p. 462; *Loche, Expl. Sci. Algér. Ois.* i. p. 213; *Gould, B. Gt. Br.* ii. pl. 47; *Bettoni, Ucc. Lomb.* i. tav. 66; *Gray, Hand-l. B.* i. p. 227, no. 3274; *Salvad. Ucc. Ital.* p. 90; *Döderl. Avif. Sicil.* p. 113; *Shelley, B. Egypt*, p. 81; *Walden, in Dresser, B. Eur.* parts 23, 24; *Irby, B. Gibr.* p. 80.

Curruca rubicola, *Leach, Syst. Cat. Mamm. &c. Brit. Mus.* p. 24.

Enanthe rubicola, *Vieill. N. Dict.* xxi. p. 429.

Enanthe rubicollis, *Roux, Orn. Prov.* pl. 202.

Saxicola fruticeti, *Brehm, Isis*, 1828, p. 1282.

Saxicola media, *Brehm, tom. cit.* p. 1282.

Saxicola tytis, *Brehm, tom. cit.* p. 1282.

Saxicola urbicola, *Küster, Isis*, 1835, p. 217.

Fruticola rubicola, *Macgill. Brit. B.* ii. p. 279.

Motacilla rupicola (lapsu), *Zawadzki, Faun. galiz.-bukowinischen Wübb.* p. 38 (1840, *teste Tweeddale*).

Saxicola maura, *Brehm, Naum.* 1855, p. 283 (*acc. Pall.*).

Adult male in breeding-plumage. General colour above jet-black, with more or less distinct remains of sandy-brown edgings to the feathers, especially on the scapulars; upper tail-coverts white with subterminal spots of black, the tips being also slightly shaded with sandy buff; wings black, with remains of whitish edgings on the greater coverts and at the tips of the secondaries, the latter being also margined with sandy brown; a large shoulder-patch of white, formed by the innermost median and greater coverts and the bases to the inner secondaries; tail dark brown, with edgings and tips of sandy brown on all the feathers, particularly the outermost, which has a narrow sandy-brown margin along the outer web; sides of face, ear-coverts, and entire throat black, with obsolete remains of sandy margins; fore neck and entire breast orange-rufous; the feathers on the sides of the breast white with rufous tips; on the sides of the neck a large patch of white, reaching in a triangular form to the edge of the throat; rest of under surface buffy white, the flanks washed with orange-rufous; under wing-coverts and axillaries white with black bases; quills blackish brown below, white along the edge of the inner web. Bill and legs black; iris dark brown. Total length 4·5 inches, culmen 0·5, wing 2·6, tail 1·9, tarsus 0·9.

Adult male in winter plumage. Differs from the summer plumage in being sandy brown above; the black feathers of the upper surface being very broadly edged with this colour, and producing a mottled appearance where the black bases to the feathers show through; wings black, all the feathers plainly edged with sandy brown, inclining to buffy white at the tips of the median, greater, and primary coverts and of the secondary quills; upper tail-coverts rufous, with concealed white bases and distinct subterminal spots of black; tail-feathers dark brown, edged with sandy brown and distinctly tipped with fulvous; black feathers on the sides of the face and throat obscured by broad margins of sandy buff; the white feathers on the sides of the neck scarcely distinguishable, and obscured by broad tips of sandy rufous; the white feathers on the sides of the upper breast with a tip of dusky brown to each; rufous feathers of the breast and flanks edged with sandy buff, the abdomen and the under tail-coverts being of the latter colour.

Obs. The summer plumage is gained by the wearing away of the light edgings to the feathers, and not by a distinct moult.

Adult female. General colour above sandy brown, with dark brown centres to the feathers, producing a mottled appearance: the upper

tail-coverts rufescent, with concealed white marks about the middle of the feathers, which are longitudinally streaked towards the tip with blackish brown; wings blackish brown with broad sandy-coloured margins; the white wing-patch smaller than in the male, but formed in the same manner; tail-feathers dark brown, edged with sandy buff, more distinct on the outermost feather, all of them having sandy-buff tips; lores and an indistinct eyebrow fulvous; ear-coverts darker brown, streaked with fulvous; throat ashy buff, with concealed blackish bases to the feathers, and an indistinct spot of black on the lower throat, on each side of the latter a triangular patch of white running up behind the ear-coverts; fore neck, breast, and sides of body pale orange-rufous; abdomen, thighs, and under tail-coverts sandy buff; under wing-coverts and axillaries white with blackish bases; quills dusky brown below, edged with white along the inner web. Total length 5 inches, culmen 0·5, wing 2·5, tail 1·9, tarsus 0·85.

The winter plumage of the female does not differ much from the summer dress, excepting that the general tone of coloration is browner, the feathers of the upper surface being more broadly edged with brown; the throat is entirely ashy buff, the black jugular spot, as well as the white on the sides of the neck, being completely obscured.

Young. Mottled; general colour above blackish brown, with grey bases to the feathers, each of which has a triangular spot of buff near the tip; head streaked with the latter colour; rump and upper tail-coverts rufescent, mottled with brown edgings to the feathers; wings dark brown, with broad rufescent margins to the wing-coverts and quills; tail-feathers dark brown, edged and tipped with sandy rufous, broader on the outermost feather; lores dull whitish with fulvous tips; round the eye a ring of buff feathers; ear-coverts dark brown streaked with fulvous; cheeks and throat ashy fulvous, the latter slightly mottled with brown tips; rest of under surface pale rufous-buff; fore neck and breast mottled with brown tips to the feathers.

Hab. Europe, extending into Palestine and eastwards into Russia, its range coalescing with that of *P. maura* probably somewhere in the watershed of the Volga river, perhaps between that river and the Don.

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| <i>a.</i> ♂ ad. st. | Great Britain. | |
| <i>b, c.</i> ♀ ♀ ad. st. | Turnham Green. | Mr. J. Baker [C.]. |
| <i>d.</i> ♀ ad.; <i>e.</i> Juv. sk. | Pagham, Sussex, Sept. 1874. | R. B. Sharpe, Esq. [P.]. |
| <i>f.</i> ♀ ad. sk. | Avington, Hants, Nov. 11th, 1873. | R. B. Sharpe, Esq. [P.]. |
| <i>g.</i> ♂ ad. sk. | Belgium, May 2, 1872. | Brussels Museum [P.]. |
| <i>h.</i> ♂ ad. sk. | Seville, Dec. 7th, 1869. | Howard Saunders, Esq. [P.]. |
| <i>i.</i> ♂ ad. sk. | Xanthus, Asia Minor. | Sir C. Fellows [P.]. |
| <i>k.</i> ♂ ad. sk. | Sidon. | Canon Tristram [C.]. |
| <i>l.</i> ♀ ad. sk. | Jericho. | Canon Tristram [C.]. |

7. *Pratincola maura*.

- Motacilla maura*, *Pall. Reis.* ii. Anhang, p. 708; *Gm. S. N.* i. p. 975.
Tschecantschiki, Lepechin, N. Comm. Petrop. xv. p. 487, pl. 25. fig. 3;
id. Tageb. Reise Russ. Reichs, ii. p. 186.
 Moor Warbler, *Lath. Gen. Syn.* iv. p. 458.
Sylvia maura, *Lath. Ind. Orn.* ii. p. 526.
Sylvia tschecantschia, *id. tom. cit.* p. 552.
Ceanthe maura, *Vicill. N. Dict. d'Hist. Nat.* xxi. p. 428.
Saxicola rubicola (*nec L.*), *Frankl. P. Z. S.* 1831, p. 119; *Sykes*,
P. Z. S. 1832, p. 91; *Temm. & Schl. Faun. Japon. Aves*, p. 58;
Middend. Reis. Sibir. p. 174; *Schrenck, Reis. Amurlande*, p. 358;
Radde, Sibir. Reis. ii. p. 247.
Saxicola saturator, *Hodgs. in Gray's Zool. Misc.* p. 83.
Pratincola indica, *Blyth, J. A. S. B.* xvi. p. 129; *id. Cat. B. Mus.*
A. S. B. p. 170; *Bp. Consp.* i. p. 305; *Gould, B. Asia*, pt. xv.;
Jerd. B. Ind. ii. p. 124; *Gray, Hand-l. B.* i. p. 228, no. 3283;
Swinh. P. Z. S. 1871, p. 360; *Cock & Marsh, Str. F.* 1873, p. 355;
Lloyd, Ibis, 1873, p. 411; *Bull, S. F.* 1874, p. 413; *Blyth & Wald.*
B. Burm. p. 102; *Brooks, S. F.* 1875, p. 238; *Butler, t. c.* p. 475;
Severtz. t. c. p. 429; *Scudly, S. F.* 1876, p. 142; *Fairb. t. c.* p. 259;
Brooks, t. c. p. 274; *Armstr. t. c.* p. 327; *Tacz. Bull. Soc. Zool.*
France, i. p. 145; *Inglis, S. F.* 1877, p. 36; *Przew. in Rowley*,
Orn. Misc. part vi. p. 185; *David & Oustal. Ois. Chine*, p. 167;
Hume & Davison, S. F. 1878, p. 334.
Saxicola indica, *Gray, Gen. B.* iii. App. p. 8.
Pratincola saturator, *Horsf. & M., Cat. B. Mus. E.I. Co.* i. p. 285.
Pratincola sybilla, *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 286
 (*nec Linn.*).
Saxicola rubicola, *var. hemprichii*, *Radde, Sib. R.* ii. p. 247, pl. 9. fig. 2.
Pratincola robusta, *Tristr. Ibis*, 1870, p. 497; *Brooks, Str. F.* 1876,
 p. 274; *Hume, Str. F.* 1877, p. 131, et 1878, p. 335.
Pratincola rubicola sybilla, *Heugl. Orn. N.O.-Afr.* i. p. 340 (*nec*
L.).
Pratincola pastor, *Blanf. Geol. & Zool. Abyss.* p. 364 (*nec Voigt*);
Finsch, Tr. Z. S. vii. p. 323.
Pratincola rubicola, *pt.*, *Severtz. Turkest. Jacotn.* p. 65; *Dresser, B.*
Eur. parts 23, 24; *id. Ibis*, 1875, p. 337; *Hume, Nests and Eggs*
Ind. B. p. 316; *Walden in Blyth, B. Burm.* p. 102; *Seebohm &*
Brown, Ibis, 1876, p. 216.
Pratincola albosuperciliaris, *Hume, Str. F.* 1873, p. 307.
Pratincola rubetra, *Marsh, Str. F.* 1875, p. 330 (*lapsu*).

Adult male in breeding-plumage (Yen-e-say Valley, East Siberia, lat. $66\frac{1}{2}^{\circ}$, June 22, 1877). General colour above jet-black, with a few remains of sandy edgings to the scapulars and dorsal plumes; some of the scapulars tipped with white; wings black, the quills browner, with obsolete sandy-brown margins to the wing-coverts and secondaries; a large white wing-patch, formed of the inner, median, and greater coverts and the bases to the inner secondaries; rump and upper tail-coverts pure white; tail-feathers black, white at the extreme base; sides of face and throat black like the head; sides of neck white, flanking the sides of the lower throat and of the upper breast; fore neck and chest orange-rufous; breast, abdomen, sides of body, and under tail-coverts white, with a very faint

wash of fulvous, on the flanks; under wing-coverts and axillaries jet-black, with narrow and almost obsolete white tips; quills brown below, white at base and along the edge of the inner web; bill black; feet black; iris dark brown. Total length 4.3 inches, culmen 0.45, wing 2.6, tail 1.8, tarsus 0.9. (*Mus. H. Seebohm.*)

Adult female (Valley of the Yen-e-say, June 11th, 1877). General colour above brown with sandy-buff edges to the feathers, broader and more extended on the scapulars; wings dark brown, with sandy-brown margins to the feathers, the greater series with buff tips, the secondaries tipped with whitish; a smaller white patch than in the male, formed by the innermost median and greater coverts and the concealed buffy-white bases of the innermost secondaries; rump and upper tail-coverts reddish buff, the latter slightly marked with brown; tail dark brown with very narrow fulvous tips and margins to the outer feather; a narrow frontal line, lores, feathers above and round the eye fulvous; ear-coverts dark brown, streaked with fulvous; sides of neck mottled, being sandy buff with dark brown centres to the feathers; cheeks and throat dull ashy fulvous; remainder of under surface of body pale sandy buff, a few of the feathers of the fore neck and chest with orange-rufous centres; under wing-coverts ashy fulvous, the axillaries sandy buff with dark brown bases to the feathers. Total length 4.2 inches, culmen 0.45, wing 2.6, tail 1.75, tarsus 0.85. (*Mus. H. Seebohm.*)

Hab. India, Burmese countries, extending eastwards to China and Japan; throughout Siberia, westwards to the Petchora river in Northern Russia, and south of the Ural river. In the Eastern Himalayas a large race (*P. robusta*, Tristr.) is found (*cf.* Hume, *Str. F.* 1877, p. 244).

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| a. ♂ ad. sk. | Ust Zylma, Petchora | Henry Seebohm, Esq. |
| | River, May 25, 1875. | [P.]. |
| b. ♂ ad. sk. | Yen-e-say Valley, 67° N. | Henry Seebohm, Esq. |
| | lat., July 4, 1877. | [P.]. |
| c, d. ♂ ♀ ad. sk. | Kuschowat, Ob River, | Dr. Otto Finsch [C.]. |
| | July 11, 1876. | |
| e. ♂ imm. sk. | India. | |
| f. ♂ hiem. sk. | India. | Capt. W. Elliot. |
| g. ♂ ad. sk. | Sindh. | Dr. Henry Gould [P.]. |
| h. ♀ ad. sk. | Ghuzni. | Dr. Henry Gould [P.]. |
| i. ♂ ad. sk. | Cashmere. | R. B. Sharpe, Esq. [P.]. |
| k, l. ♂ ad.; m, n. ♀ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| o, p. ♂ imm. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| q, r, s. ♂ ad.; t-w. ♂ hiem. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| x-c'. ♂ ad.; d'. Juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| e'. ♂ hiem. sk. | Darjiling. | Secretary of State for India [P.]. |
| f'. ♂ hiem. sk. | Darjiling (<i>T. C. Jerdon</i>). | C. Bygrave Wharton, Esq. [P.]. |
| g'. ♂; h', i'. ♀ ad. sk. | Behar. | B. H. Hodgson, Esq. [P.]. |

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| <i>k', l'. ♂ ♀ ad. sk.</i> | Kamptee, C. India. | Dr. B. Hinde [P.]. |
| <i>m'. ♂ hiem. sk.</i> | Assam. | Secretary of State for India [P.]. |
| <i>n. ♂ hiem. sk.</i> | Upper Burmah. | W. T. Blanford, Esq. [P.]. |
| <i>o'. ♀ ad. sk.</i> | Bhaman, Upper Burmah, Jan. 3, 1868. | Dr. J. Anderson [C.]. |
| <i>p'. ♂ hiem. sk.</i> | Tsitkau, Upper Burmah, Feb. 2, 1875. | Dr. J. Anderson [C.]. |
| <i>q'. ♂ hiem. sk.</i> | Tenasserim. | J. C. D. Packman, Esq. [P.]. |
| <i>r'. ♂ ad. sk.</i> | Senafé, Tigré, 7500 feet. | W. T. Blanford, Esq. [C.]. |
| <i>s', t'. ♂ ♀ ad. sk.</i> | Adigrat, 8000 feet. | W. T. Blanford, Esq. [C.]. |
| <i>u'. ♂ ad. sk.</i> | Mountains of Abyssinia. | Sir W. C. Harris [C.]. |

8. *Pratincola torquata*.

Le Gobe-mouche à collier du Cap de Bonne Espérance, *Brisson, Orn.* ii. p. 379, pl. 36. fig. 4; *Daubent. Pl. Enl.* v. pl. 572. fig. 2.

Muscicapa torquata, *Linn. Syst. Nat.* i. p. 328.

Cape Flycatcher, *Lath. Gen. Syn.* iii. p. 326.

Le Traquet pâle, *Levaill. Ois. d'Afr.* iv. p. 88, pl. 180. figs. 1, 2; *Sundev. Crit. om Levaill.* p. 44.

Chuanthe rubicola, var., *Vicill. N. Dict. d'Hist. Nat.* xxi. p. 435.

Motacilla (Saxicola) pastor, *Voigt, ed. Cuv. Règne Anim.* i. p. 511.

Pratincola pastor, *Strickl. Ann. N. H.* 1844, p. 410; *Layard, B. S. Afr.* p. 111; *Dresser, B. Eur.* parts 23, 24, note; *Antin. & Salvad. Viagg. Bogos*, p. 103.

Pratincola sybilla, *Cab. Mus. Hein.* Th. i. p. 10 (*nec L.*).

Pratincola torquata, *Sundev. Crit. om Levaill.* p. 44; *Grill, Zool. Anteckn.* p. 27; *Gray, Hand-l. B.* i. p. 227, no. 3276; *Sharpe, Cat. Afr. B.* p. 28; *Curney in Anderss. B. Dam. Ld.* p. 162; *Sharpe, ed. Layard, B. S. Afr.* p. 251.

Pratincola rubicola, *Chapm. Trav. in S. Afr.* ii. *App.* p. 399.

Adult male in breeding-plumage. General colour above black, with a few remains of sandy-brown edgings to the scapulars and feathers of the lower back; wing-coverts black, with narrow and nearly obsolete white edgings to the greater and primary-coverts; inner median and inner greater coverts pure white, forming a large patch on the wings; quills dark brown, with obsolete edgings of whity brown, a little plainer on the tips of the secondaries, the innermost of which are white at the base; feathers of lower back black, with white tips where they adjoin the rump, which is white as well as the upper tail-coverts: tail blackish, browner towards the tip and white at the extreme base, the outer feathers obsoletely margined with whity brown; sides of face, throat, and fore neck black like the crown; sides of neck white, forming a half-collar, the feathers adjoining the hind neck white with black tips; breast orange-chestnut, fading rather paler on the flanks, the abdomen buffy whitish, the under tail-coverts white; on each side of the upper breast a patch of pure white feathers connected with the white on the sides of the neck; under wing-coverts black, with broad white edges; axillaries white, with black bases; quills brown below, whitish along the inner web; bill and feet black; iris dark hazel. Total length 5·2 inches, culmen 0·5, wing 2·75, tail 2·15, tarsus 0·95.

Adult male in winter plumage. Differs from the summer plumage in having the whole of the black feathers obscured by dull rusty-coloured edges, which are found even on the throat and the chestnut breast-feathers; white neck-patch obscured by rusty margins to the plumes; white bases to the inner secondaries broader, and these feathers sometimes so broadly edged with white as to form a narrow longitudinal bar down the wing.

Adult female. Different from the male. General colour above dark brown, the feathers lighter and more fulvous-brown on their edges, imparting a somewhat mottled appearance; head slightly darker than the back, the pale edgings to the feathers not so apparent; wing-coverts and quills dark brown, edged with lighter brown, the white wing-patch not so conspicuous as in the male, the inner median coverts being merely tipped with white, while the inner greater coverts are white more or less washed with brown markings, the innermost secondaries white at the base; upper tail-coverts white, the longer ones with blackish tips; lores and a tolerably distinct eyebrow fulvous; sides of face also fulvous, the upper edge of the ear-coverts brown; chin ashy fulvous, the lower throat mottled with dark brown bases to the feathers, as also are the hinder cheeks; remainder of under surface orange-chestnut, the abdomen, thighs, and under tail-coverts fulvous; sides of upper breast brown; under wing-coverts ashy whitish, with blackish bases to the feathers; quills brown below, fulvescent along the inner web. Total length 5·5 inches, culmen 0·5, wing 2·5, tail 2·1, tarsus 0·85.

Hab. South Africa.

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|--------------|-----------------------|------------------------|
| a. ♂ ad. sk. | South Africa. | Purchased. |
| b. ♂ ad. sk. | South Africa. | J. Röcke, Esq. [P.]. |
| c. ♂ ad. sk. | South Africa. | Capt. Stanley [P.]. |
| d. ♂ ad. sk. | Natal. | R. B. Sharpe, Esq. |
| e. ♂ ad. sk. | Transvaal (T. Ayres). | R. B. Sharpe, Esq. |
| f. ♀ ad. sk. | Zambesi (Meller). | R. B. Sharpe, Esq. |
| g. ♂ ad. st. | Cape of Good Hope. | |
| h. ♀ ad. st. | Cape of Good Hope. | Sir Andrew Smith [C.]. |

9. *Pratincola sybilla*.

Le Traquet de Madagascar, *Briss. Orn.* iii. p. 439, pl. 24. fig. 4.

Motacilla sybilla, *Linn. Syst. Nat.* i. p. 337.

Le Fitert, *Buff. Nat. Hist. Ois.* v. p. 231.

Sybil Warbler, *Lath. Gen. Syn.* iv. p. 450.

Sylvia sybilla, *Lath. Ind. Orn.* ii. p. 523.

Pratincola sybilla, *Bp. Consp.* i. p. 304; *Hartl. Faune Madag.* p. 38; *Rock & E. Newt. Ibis*, 1862, p. 272; *E. Newt. Ibis*, 1863, p. 345; *A. Newt. P. Z. S.* 1865, p. 836; *Gray, Hand-l. B.* i. p. 227, no. 3277; *Sharpe, P. Z. S.* 1870, p. 394; *id. Cat. Afr. B.* p. 28; *Dresser, B. Eur.* parts 23, 24, note; *Hartl. Vög. Madag.* p. 121.

Pratincola pastor (*nee Voigt*), *Hartl. Faune Madag.* p. 39; *Grandid. Rev. et Mag. de Zool.* 1867, p. 359.

Saxicola torquata, *Schl. & Poll. Faun. Madag. Ois.* p. 93.

Adult male in breeding-plumage. General colour above jet-black, the upper tail-coverts white; tail black, browner towards the tips of the outer feathers; wings black, with obsolete browner margins

to the quills, and having a large white patch, formed of the innermost median and greater coverts and the white bases to the innermost secondaries; sides of face, throat, and fore neck black, succeeded by a small chest-patch of orange-chestnut, the whole of the breast, abdomen, and under tail-coverts being pure white, which encroaches along the sides of the breast and extends on the sides of the neck, where it forms almost a half-collar, the adjoining feathers of the hind neck being black with more or less white on their outer webs; under wing-coverts black, with narrow white edges; axillaries white, with dusky grey bases; quills blackish below, edged with white along the inner webs; "bill black; feet lead-colour; iris dusky" (*Hartlaub*). Total length 4.9 inches, culmen 0.5, wing 2.6, tail 2, tarsus 0.9.

Adult male in winter plumage. Differs from the summer plumage in having the black plumage obscured by sandy-rufous edgings to the feathers.

Adult female. Different from the male. General colour above blackish brown, the feathers obscurely margined with ashy fulvous, producing a mottled appearance, which is more conspicuous on the head; wing-coverts and quills blackish brown, with ashy fulvous margins, and having a small white patch, produced by the innermost median and greater coverts and the white bases to the innermost secondaries; upper tail-coverts sandy rufous with white bases; tail-feathers dark brown, lighter brown at their tips and inclining to white brown at the end and along the outer web of the external feathers; lores, feathers round the eye, and an indistinct eyebrow ashy whitish, with dusky bases to the feathers; ear-coverts rufescent brown, with fulvous streaks along the centre of the feathers; cheeks and sides of neck mottled, the plumes being brown with fulvous or white edgings; throat ashy whitish, slightly washed with rufous, the shaft-streaks white, the lower feathers edged with brown; fore neck and chest pale orange-rufous, the sides of the body, thighs, and under tail-coverts washed with the same colour; centre of the breast and abdomen buffy white; under wing-coverts and axillaries white, with dusky grey bases; quills ashy brown below, whitish along the edge of the inner webs. Total length 4.4 inches, culmen 0.5, wing 2.55, tail 2, tarsus 0.9.

Young. Blackish brown above, varied with longitudinal streaks of fulvous down the feathers, smaller on the head; the back and scapulars washed with dull sandy rufous, with a black terminal edging; wing-coverts and quills blackish brown, tipped with sandy rufous or buffy white, the inner secondaries more broadly edged with rufous, the white wing-patch only represented by white mesial streaks to the inner greater coverts; upper tail-coverts dull sandy rufous; tail-feathers blackish brown, edged with sandy rufous, and becoming paler towards the ends, which have pale brown tips and terminal margins; feathers over the eye and ear-coverts blackish, longitudinally streaked with sandy buff; lores fulvescent, with lighter shaft-lines; throat dull buff-colour, mottled with dark brown edges to the feathers; remainder of under surface dull orange-rufous, edged

with dark brow, the lower abdomen and under tail-coverts uniform sandy buff, without brown edges to the feathers; under wing-coverts and axillaries whitish, with dusky bases; quills dark brown below, buffy whitish along the edge of the inner webs.

Hab. Madagascar.

| | | |
|-------------------|----------------------|--------------------------|
| a, b. ♂ ♀ ad. sk. | Mohambo, Madagascar. | Mr. Gerrard [C.]. |
| c. Juv. sk. | Madagascar. | R. B. Sharpe, Esq. [P.]. |
| d. ♂ ad. sk. | N.E. Madagascar. | R. B. Sharpe, Esq. |
| e. ♂ ad. sk. | Tintingue, 1869. | R. B. Sharpe, Esq. |
| f. ♂ ad. sk. | Bay of Antouzil. | R. B. Sharpe, Esq. |

10. *Pratincola hemprichi*.

Saxicola hemprichii, *Ehrenb. Symb. Phys.* fol. aa.

Pratincola hemprichii, *Bp. Consp.* i. p. 304; *Cab. Mus. Hein.* Th. i. p. 11; *Gray, Hand-l. B.* i. p. 227, no. 3278; *Shelley, B. Egypt*, p. 82; *Blanf. Geol. & Zool. Abyss.* p. 364; *Finsch, Tr. Z. S.* vii. p. 323; *Severtz. Turkest. Jerotr.* pp. 65, 120; *Dresser, Ibis*, 1875, p. 338; *id. B. Eur.* parts 23, 24, note; *Hume, S. F.* 1875, p. 239, note, 1877, p. 244; *Antin. & Salvad. Viagg. Bogos*, p. 104.

Pratincola rubicola hemprichii, *Heugl. Orn. N.O.-Afr.* p. 339.

Adult male. General colour above black, with remains of pale sandy-coloured edgings to the feathers; rump and upper tail-coverts white, tipped with rufous; tail-feathers black, margined and tipped with sandy buff, more distinctly on the two outermost, all the feathers white for two thirds of their length, excepting the centre pair, which are white only at their base; wings black, with narrow sandy-buff margins to the feathers, more distinct on the secondaries; a large white wing-patch formed of the inner, median, and greater coverts and the innermost secondaries, the latter being black along their middle; sides of head and throat black; throat and breast orange-chestnut; centre of the body fulvous, the flanks washed with pale orange-chestnut; under tail-coverts whiter; on the sides of the neck a conspicuous triangular patch of white; sides of the upper breast white, washed with orange; under wing-coverts black with white edges; axillaries white with black bases; quills blackish below, edged with white along the inner webs; bill and legs black; iris dark brown. Total length 4.7 inches, culmen 0.45, wing 2.85, tail 2, tarsus 0.85.

Adult female. General colour above sandy buff, varied with darker brown centres to the feathers; upper tail-coverts white, washed with pale rufous, the longer ones with a brown spot at the tip; tail-feathers dark brown, edged and tipped with sandy buff, more distinct on the outer ones; wings blackish brown, with distinct edgings of sandy buff, narrower on the primaries; the white wing-patch distinct and formed as in the male; base of forehead and lores sandy buff, extending over the fore part of the eye and forming an indistinct eyebrow; round the eye a ring of fulvous feathers; ear-coverts darker brown, obscured by sandy brown edgings; throat ashy fulvous, with a blackish spot on the lower part where the dark bases

to the feathers show through; fore neck, breast, and sides of body pale orange-rufous; the centre of the body buffy whitish, pure white on the under tail-coverts; under wing-coverts and axillaries whitish with dusky bases; quills ashy brown below, whitish along the inner webs. Total length 4·8 inches, culmen 0·5, wing 2·6, tail 1·9, tarsus 0·8.

Hab. N.E. Africa, ranging to South-eastern Europe as high as the river Ural in 47° N. lat. (*teste Severtzoff*).

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|--------------|------------------------------|----------------------------|
| a. ♂ ad. sk. | Annesley Bay, Abyssinia. | W. T. Blanford, Esq. [C.]. |
| b. ♀ ad. sk. | Thebes, Egypt. | Dr. Leith Adams [P.]. |
| c. ♀ ad. sk. | Bogos Land (<i>Esler</i>). | R. B. Sharpe, Esq. |

11. *Pratincola leucura*.

Pratincola leucura, *Blyth, J. A. S. B.* xvi. p. 474; *id. Cat. B. Mus. A. S. B.* p. 170; *Bp. Consp.* i. p. 305; *Jerd. B. Ind.* ii. p. 126; *Gould, B. Asia*, part xviii.; *Gray, Hand-l. B.* i. p. 228, no. 3285; *Hume, Str. P.* 1873, p. 183, 1874, p. 478, 1875, p. 135; *Blyth & Wulld. B. Burm.* p. 102; *Hume & Davison, S. F.* 1878, p. 335.

Adult male in summer plumage. General colour above jet-black, with remains of sandy-brown edgings to the scapulars; rump a little greyer than the back; upper tail-coverts white, two centre tail-feathers blackish brown, white at the base, the remaining feathers dark brown on the outer web, white on the inner; the wings black, the quills browner, with obsolete paler margins; a white wing-patch, formed by the innermost median and greater coverts and the white outer webs of the innermost secondaries; sides of the head and throat black, followed by a patch of orange-rufous occupying only the fore neck and chest; remainder of under surface white, slightly washed with orange on the sides of the body; on each side of the lower throat a triangular white patch reaching backwards onto the sides of the neck; under wing-coverts black edged with white, the axillaries white with black bases; quills dull brown below, whitish along the inner webs. Total length 4·8 inches, culmen 0·45, wing 2·6, tail 1·9, tarsus 0·8.

Adult male in winter plumage. Above sandy brown, almost uniform, the black centres to the feathers being effectually concealed; upper tail-coverts white, sandy rufous at their ends; tail-feathers dark brown, edged with sandy colour, the inner webs white, slightly shaded with sandy buff at the tips; wings black, with broad sandy-brown edges to the feathers, the inner secondaries margined with rufous, some of the feathers forming the white wing-patch edged with brown; a loreal line of ashy white; feathers in front of and round the eye black, with sandy-brown edgings; throat black, obscured by ashy-whitish margins to the feathers; on each side of the lower throat a white patch half concealed by rufous tips to the feathers; breast and sides of body orange-rufous, the feathers edged with sandy buff; plumes on the sides of the upper breast white, tipped rufous; under wing-coverts and axillaries white with dusky bases.

Adult female. General colour above earthy brown, with more or less distinct remains of sandy-brown edges; upper tail-coverts sandy buff; tail-feathers brown, dull white along the basal portion of the inner web; wings brown, with buffy-white tips to the greater coverts; wing-patch smaller than in the males, formed by the white outer webs of the innermost median and greater coverts, the outer webs of the innermost secondaries being also dull white near the base; loros fulvous, extending over the fore part of the eye; round the latter a ring of sandy buff; ear-coverts brown, with fulvous shaft-lines; cheeks and throat white; breast and sides of body paler orange-buff, the centre of the abdomen buffy white; under wing-coverts and axillaries pale sandy buff with dusky bases; quills brown below, whitish along the edge of the inner web. Total length 5 inches, culmen 0.5, wing 2.45, tail 2, tarsus 0.8.

Hab. India and Burmese countries.

| | | |
|----------------------|-----------------|--------------------------------|
| a. ♂ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| b, c. ♂ ♀ æstiv. sk. | Upper Burmah. | T. C. Jerdon, Esq. [P.]. |
| d. ♂ hiem. sk. | Upper Burmah. | W. T. Blanford, Esq. [P.]. |

12. *Pratincola caprata*.

La Traquet de l'isle de Luçon, *Briss. Orn.* iii. p. 444, pl. 24. figs. 2, 3;

Daubent. Pl. Ent. vi. pl. 235.

Motacilla caprata, *Linn. S. Nat.* i. p. 335; *Martens, J. f. O.* 1866, p. 10.

Cenanthe caprata, *Vieill. N. Diet.* xxi. p. 433.

Saxicola fruticola, *Horsf. Tr. Linn. Soc.* xii. p. 157.

Saxicola bicolor, *Sykes, P. Z. S.* 1832, p. 92.

Saxicola erythropygia, *Sykes, t. c.* p. 92.

Motacilla sylvatica, *Tickell, J. A. S. B.* ii. p. 575.

Saxicola caprata, *Jerd. Madr. J.* x. p. 265; *Gray, Gen. B.* i. p. 179;

id. Cat. B. Nepal coll. Hodgs. p. 71; *Finsch, Neu-Guinea*, p. 167.

Saxicola meloleuca, *Hodgs. Icon. ined. Passeres*, pl. 98 (*Hodgs.* no. 420);

id. in Gray's Zool. Misc. p. 83.

Pratincola caprata, *Blyth, J. A. S. B.* xvi. p. 129; *id. Cat. B. Mus.*

A. S. B. p. 169; *Bp. Consp.* i. p. 305; *Cab. Mus. Hein. Th.* i. p. 11;

Horsf. & Moore, Cat. B. Mus. E.I. Co. i. p. 284; *Jerd. B. Ind.*

ii. p. 123; *Gray, Hand-l. B.* i. p. 228, no. 3282; *Holdsw. P. Z. S.*

1872, p. 454; *Hume, Str. F.* 1873, p. 182; *Adam, t. c.* p. 379; *Ball,*

Str. F. 1874, p. 413; *Hume, t. c.* p. 477, et 1875, p. 134; *id. Nests*

and Eggs Ind. B. p. 313; *Brooks, S. F.* 1875, p. 238; *Blyth &*

Walden, B. Burm. p. 102; *Walden, Tr. Z. S.* viii. p. 63, ix. p. 192;

Salvad. Ucc. Born. p. 252; *Sharpe, Tr. Linn. Soc.* new series, i.

p. 335; *Blanford, East Persia*, p. 144; *Fairb. S. F.* 1876, p. 259;

Butler, S. F. 1877, p. 229; *Tweed. P. Z. S.* 1877, pp. 696, 761,

1878, p. 710; *Salvad. P. Z. S.* 1877, p. 393; *Hume & Davison, S. F.*

1878, p. 334.

Pratincola atrata, *Blyth, J. A. S. B.* xx. p. 177; *Jerd. B. Ind.* ii.

p. 124; *Gray, Hand-l. B.* i. p. 228, no. 3281; *Holdsw. P. Z. S.*

1872, p. 454; *Walden, Tr. Z. S.* viii. p. 63.

Pratincola bicolor, *Hume, Nests and Eggs Ind. B.* p. 314.

Adult male. General colour above glossy black, including the scapulars; wing-coverts and quills black, excepting a large white

patch composed of the innermost of the least, median, and greater wing-coverts, as well as the adjoining outer greater coverts, which are white on the inner web, and the bases of the inner secondaries, which are white; rump and upper tail-coverts pure white; tail-feathers, a few of the feathers white at the extreme base; sides of the face, sides of neck, and entire under surface glossy black, the vent and under tail-coverts white; some of the feathers of the lower abdomen and the thighs with obscure white edgings; under wing-coverts and axillaries black, a few narrowly edged with white; quills black below; "bill and feet black; iris dark brown" (*A. Everett*). Total length 5·4 inches, culmen 0·45, wing 2·6, tail 2·1, tarsus 0·8.

The younger males appear to be some time in gaining the full black plumage and remain for some little while with the entire abdomen white, instead of having only the vent and under tail-coverts white; along with this white abdomen is sometimes found a broad white edging to the under wing-coverts, and occasionally some of the primaries are externally margined with white.

Adult female. Quite different in plumage to the male. Above ashy brown, with darker brown centres to the feathers of the head, scapulars, and back; lower rump and upper tail-coverts buffy white, somewhat washed with rust-colour, the long tail-coverts tipped with this latter colour; tail-feathers dark brown; wing-coverts and quills dark brown margined with lighter brown, much paler on the edges of the primaries; feathers in front of the eye and eyebrow ashy; ear-coverts dark brown, as also the feathers under the eye; cheeks and under surface of body brown, the chin and fore part of cheeks margined with whity brown, the breast slightly mottled with darker brown centres to the feathers; the abdomen inclining to ochraceous brown; under tail-coverts white; under wing-coverts rather rufescent brown with an ashy shade: quills brown below, shaded lighter along the inner webs. Total length 5·4 inches, culmen 0·45, wing 2·75, tail 2·1, tarsus 0·8.

Young. Mottled all over like a young Robin, the upper surface being fulvescent, edged with darker brown; the head blackish brown, streaked down the centre of the feathers with deep fulvous; wing-coverts and quills edged with fawn-colour; under surface of body fulvous, slightly varied with dark edges to the feathers of the breast.

This species appears to have a winter plumage, when the black feathers are edged with rusty ochre.

Obs. Individuals from the Neilgherries and Ceylon have been kept distinct by many ornithologists on account of their larger size. Mr. Hume writes (*Str. F.* 1873, p. 183):—"I very much doubt the propriety of retaining *P. atrata*, Blyth, as a distinct species. All that can be said is, that the Northern-Indian specimens of *P. caprata* are generally smallest, Central-Indian, Goojerat, and Sindh birds intermediate, and Southern-Indian and Ceylon birds largest. Those who think the larger size a sufficient specific character must separate the Ceylonese bird as *Pratincola atrata* or *P. bicolor*, Sykes."

A considerable difference exists in the amount of white on the

under surface in this species. the majority of the specimens from the Eastern archipelago having the white confined to the under tail-coverts, while nearly all the individuals from the N.W. Himalayas and from Baluchistan have the lower breast and abdomen white as well as the under tail-coverts. These differences would seem to be specific, were it not that occasional specimens were met with from one or other of the above-named localities showing partially the characters of the opposite race.

Hab. India and Ceylon, ranging westwards through Sindh to South-eastern Persia, eastwards through the Burmese countries; Philippines, Java, Flores, Lombok, Timor, Celebes.

a. *P. caprata*.

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|-----------------------------|--|--|
| a. ♂ ad. sk. | Philippine Islands. | Hugh Cuming, Esq. [C.]. |
| b. ♂ ad. sk. | Java. | Dr. Horsfield [C.]. (Type of species.) |
| c. ♂ ad. sk. | E. Java. | A. R. Wallace, Esq. [C.]. |
| d, e. ♂ ad.; f. ♀ ad. sk. | Lombok. | A. R. Wallace, Esq. [C.]. |
| g. ♂ juv. sk. | Flores. | A. R. Wallace, Esq. [C.]. |
| h, i. ♂ ad. sk. | Timor. | A. R. Wallace, Esq. [C.]. |
| k, l. ♂ ad. sk. | E. Timor. | A. R. Wallace, Esq. [C.]. |
| m. ♂ ad. sk. | Timor Coupang. | A. R. Wallace, Esq. [C.]. |
| n. ♂ ad. sk. | Makassar, Celebes. | A. R. Wallace, Esq. [C.]. |
| o, p, q. ♂; r, s. ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| t-x. Juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| y. ♂ ad. sk. | Bhamau, Upper Burmah, Feb. 18, 1868. | Dr. J. Anderson [C.]. |
| z, a'. ♂ ad. sk. | Behar. | B. H. Hodgson, Esq. [P.]. |
| b'. ♂ imm. sk. | N. India. | Secretary of State for India [P.]. |
| c'. ♂ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| d'. ♀ juv. sk. | Valley of Astur, Cashmere, Sept., 12,000 feet. | Purchased. |
| e'. ♂ imm. sk. | Saugor. | Secretary of State for India [P.]. |
| f'. ♂ ad. sk. | Madras. | Sir W. Elliot [P.]. |
| g', h'. ♂ ad. sk. | India. | J. Gould, Esq. |
| i'. ♂ ad. sk. | Near Bam, S.E. Persia, April 24, 1872. | W. T. Blanford, Esq. [C.]. |
| k'. ♀ ad. sk. | Bampur, Baluchistan, April 6, 1872. | W. T. Blanford, Esq. [C.]. |

b. *P. bicolor*.

| | | |
|-------------------------|---------------|------------------------------------|
| a. ♂ ad.; b. ♂ juv. sk. | Neilgherries. | Secretary of State for India [P.]. |
| c. ♀ ad. sk. | Ceylon. | Hugh Cuming, Esq. [C.]. |
| d. ♀ ad. sk. | Ceylon. | Dr. Kelaart [P.]. |

13. *Pratincola albifasciata*.* †

Saxicola albifasciata, Rüpp. *Syst. Uebers.* p. 39, Taf. 16; *Guérin et Lafr. in Ferr. et Galin. Voy. Abyss.* iii. p. 217, pl. 12; *Gray, Gen. B.* i. p. 179

Parus leucopterus, *Lefebvre, Voy. Abyss.* p. 167 (*nec Swains.*).

Dromolæa albifasciata, *Bp. Consp.* i. p. 303.

Pratincola melanoleuca, *Heugl. Syst. Uebers.* p. 27, no 244 (*deser. nullâ; nec Hodys.*).

Pratincola semitorquata, *Heugl. J.f. O.* 1869, p. 166; *Blanf. Geol. & Zool. Abyss.* p. 365, pl. 5; *Heugl. Orn. N.O.-Afr.* p. 341; *Finsch, Tr. Z. S.* vii. p. 323.

Adult male in breeding-plumage (P. semitorquata, Heugl.). General colour above jet-black, the rump-feathers tipped with white, the upper tail-coverts pure white; tail black; wings black, the quills browner at their ends; a large white wing-patch, formed by the innermost median and greater coverts and the bases to the innermost secondaries, the adjacent median and greater coverts being white, with more or less black towards the tip of the outer web; sides of face, throat, and breast black, relieved by a large patch of white at the sides of the neck, which joins a second patch on the sides of the lower throat; entire abdomen and under tail-coverts white; thighs black; under wing-coverts and axillaries black; quills black below, browner along the edge of the inner web; "bill and feet black; iris dusky" (*Heuglin*). Total length 4·9 inches, culmen 0·5, wing 2·65, tail 2, tarsus 0·85.

Adult male in winter plumage (S. albifasciata, Rüpp.). Differs only from the summer dress in having the feathers of the upper surface and the feathers of the breast edged with rufous-brown.

Adult female. General colour above dark brown, all the feathers edged with dark sandy brown, producing a mottled appearance; the head darker than the back; upper tail-coverts white; tail-feathers blackish brown; wing-coverts and quills dark brown, edged and tipped with sandy brown, the wing-patch smaller than in the male, many of the feathers being brown on the inner web; lores and feathers round the eye dark sandy buff; ear-coverts dark brown, edged with sandy brown; cheeks and throat sandy buff, lower throat and breast dark orange-rufous, the sides of the body also slightly washed with this colour; centre of body, abdomen, and under tail-coverts sandy fulvous; under wing-coverts dark brown, the axillaries sandy rufous with dusky bases; quills dark brown below, dull whitish along the inner web. Total length 4·5 inches, culmen 0·45, wing 2·65, tail 1·8, tarsus 0·8.

Hab. Mountains of Abyssinia.

* That *P. semitorquata* is only the adult breeding-plumage of *P. albifasciata* is proved by a comparison of one of the typical specimens of the latter bird in the Museum with the birds figured by Mr. Blandford (*l. c.*). Some mistake seems to have occurred in the figure given in Dr. Rüppell's work, where the white neck-spot has become merged in the white wing-band, which is represented as much too extensive; this may be seen by a comparison of the plates in the above-mentioned works.

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|---------------------|-------------------------------|----------------------------|
| a. ♂ hiem. sk. | Abyssinia. | Dr. Rüppell [C.]. |
| b. ♂ ad. æstiv. sk. | Near Adigrat, March 23, 1868. | W. T. Blanford, Esq. [C.]. |
| c. ♀ æstiv. | Lake Ashangi, May 3, 1868. | W. T. Blanford, Esq. [C.]. |

13. ERYTHROMYIAS.

Pratincola, pt., auct.

Erythrosterina, pt., auct.

Bill and wing of *E. dumetoria*.

Range. Confined to the islands of Java, Lombok, and Timor.

Key to the Species.

- a. Back black; throat and breast orange; down the wing a white bar; base of tail white.
 - a'. A white eyebrow, extending from the base of the forehead to the sides of the neck. *dumetoria*, p. 199.
 - b'. No white eyebrow, only a white line running from the hinder part of the eye above the ear-coverts. *muelleri*, p. 200.
- b. Back chestnut; head black; under surface white, with a broad black pectoral band; no white at base of tail *pyrrhonota*, p. 200.

1. *Erythromyias dumetoria*. (Plate IV. fig. 1.)

Saxicola dumetoria, Wallace, *P. Z. S.* 1863, p. 490; *Finsch, Neu-Guinea*, p. 167.

Xanthopygia dumetoria, Blyth, *Ibis*, 1867, p. 14.

Niltava tricolor, Gray, *Hand-l. B.* i. p. 327, no. 4907.

Adult (type of species). General colour above sooty black, the mantle with white shafts to the feathers; wing-coverts and quills blackish, with a white bar down the wings, composed of the inner greater coverts and the outer webs of some of the inner secondaries; two centre tail-feathers black, the others white, with the terminal third black; sides of face black like the crown, with a distinct white eyebrow running from the base of the bill to the sides of the neck; throat and breast light orange-rufous, whiter on the chin; remainder of under surface of body white, washed with sooty grey on the flanks; thighs dusky blackish; under wing-coverts white, as

also the inner edge of the quills below. Total length 4·6 inches, culmen 0·45, wing 2·35, tail 1·9, tarsus 0·8.

Hab. Lomboek.

a. ♂ ad. st.

Purchased.

b. ♂ ad. sk.

Lomboek.

A. R. Wallace, Esq. [P.].

(Type of species.)

2. *Erythromyias muelleri*. (Plate IV. fig. 2.)

Muscicapa muelleri, *Blyth, Ibis*, 1870, p. 166; *Salvad. Ucc. Born.* p. 129.

Adult male (type of species; Sumatra, *Van Horner*). General colour above black, with a very slight gloss of slate-colour; on the rump a few white feathers; wing-coverts and quills black, the median coverts tipped with white, the outer webs of the inner secondaries and the innermost of the greater coverts white, forming a bar down the wing; two centre tail-feathers black, all the rest white, with about the terminal third black; entire sides of face and sides of neck black, with a white streak from the hinder part of the eye to the sides of the nape; throat and breast orange-rufous, gradually paling on the lower abdomen and under tail-coverts, which are white; sides of upper breast washed with black; thighs black; under wing-coverts and axillaries white, with a little black patch near the edge of the wing; quills blackish below, the primaries obscurely white along their inner edge. Total length 4·4 inches, culmen 0·5, wing 2·35, tail 1·8, tarsus 0·7. (*Mus. Lugd.*)

Hab. Sumatra; Borneo.

a. ♂ ad. sk.

Borneo.

Leiden Museum [P.].

3. *Erythromyias pyrrhonota*.

Saxicola pyrrhonotus, *Müll. & Schl. Verh. Naturh. Gesch. Land- en Volkenk.* p. 209; *Gray, Gen. B.* i. p. 179; *Bp. Consp.* i. p. 304; *Wallace, P. Z. S.* 1863, p. 485; *Gray, Hand-l. B.* i. p. 227, no. 3268.

Adult male. Above orange-chestnut, the least and median wing-coverts like the back, the outer greater coverts, primary-coverts and quills black, the inner secondaries orange-chestnut along the outer web; tail dark brown: head and hind neck, as well as the cheeks and entire sides of face, glossy black; under surface of body white, with a broad black band across the chest reaching round to the sides of the neck and advancing slightly down the sides of the breast, where the adjoining feathers are white tipped with black; sides of body washed with ochraceous brown; thighs black; under wing- and tail-coverts and axillaries pure white; quills dusky brown below, fulvescent along the edge of the inner web. Total length 5·2 inches, culmen 0·5, wing 2·7, tail 2·1, tarsus 0·8.

Adult female. Like the male, but with the crown and hind neck sooty brown instead of black; the sides of the face black; outer

greater coverts, and outer secondaries also, edged with light orange-chestnut. Total length 5·2 inches, culmen 0·5, wing 2·4, tail 2, tarsus 0·75.

Hab. Timor.

a, b. ♂ ♀ ad. sk.

East Timor.

A. R. Wallace, Esq. [C.].

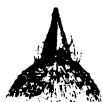
c. ♂ ad. sk.

Timor.

14. POLIOMYIAS.

Erythrosterina, pt., *auctt.*

Siphia, pt., *auctt.*



Bill of *Poliomyias luteola*.

Of the general aspect and style of plumage of the Red-breasted Flycatchers (*Muscicapa*, section *Erythrosterina*), but having long wings as in *Petrarca* and *Muscicapula*.

Range. Eastern Siberia and Japan, migrating through China to the Malayan peninsula and islands; Eastern Himalayas, ranging into the hills of Western China.

Key to the Species.

- a.* Inner greater wing-coverts white, forming a conspicuous patch. *luteola*, p. 201.
- b.* No white patch on the wing-coverts, which are grey like the back *hodgsoni*, p. 203.

1. *Poliomyias luteola*.

Motacilla luteola, *Pall. Zoogr. Rosso-Asiat.* i. p. 470.

Muscicapa mugimaki, *Temm. Pl. Col.* iii. pl. 577. fig. 2; *Gray, Gen.*

B. i. p. 262; *Temm. & Schl. Faun. Japon. Aves*, p. 47, Taf. xvii. b;

Blakist. & Pryer, Ibis, 1878, p. 234.

Erythrosterina rufigula, *S. Müller, in V. d. Hoeven's Tijdschr.* 1835, p. 351 (*ex Kuhl, MSS.*); *Bp. Consp.* i. p. 319; *Sharpe, Notes Leyden Mus.* i. no. 8, p. 26.

Siphia erythaca, *Blyth, J. A. S. B.* xvi. p. 126.

Xanthopygia mugimaki, *Bp. Consp.* i. p. 327.

Erythrosterina erythaca, *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 412; *Moore, P. Z. S.* 1854, p. 283; *Salvad. Ucc. Born.* p. 127.

Muscicapa luteola, *Middend. Sibir. Reise*, ii. p. 186, Taf. 17. figs. 1-3; *Schrenck, Reise Amurl.* p. 375, Taf. 13. fig. 1; *Radde, Sibir. Reis.* p. 269; *Gray, Hand-l. B.* i. p. 321, no. 4820.

Muscicapa hylocharis, *Swinh. Ibis*, 1862, p. 305 (*nec T. & S.*).

Muscicapa ruficularis, *Gray, Hand-l. B.* i. p. 323, no. 4845.

Niltava erythaca, *Gray, Hand-l. B.* i. p. 327, no. 4908.

Erythrosterina luteola, *Swinh. P. Z. S.* 1871, p. 380; *Dybowski, J. f. O.* 1872, p. 449; *Tacz. Bull. Soc. Zool. France*, i. p. 169; *David & Oustal. Ois. Chine*, p. 121.

Siphia erythrura (lapsu), *Ferr. N. Arch. Mus.* vii. *Bull.* p. 29.

Adult male. General colour above slaty grey, rather darker on the mantle and back, the latter having greyish-white shafts to the feathers; upper tail-coverts black; tail-feathers black, with broad white bases to all but the two centre ones, this white coloured-

creasing in extent towards the outermost; least wing-coverts slaty grey like the mantle; median and greater coverts pure white, the outermost and bastard wing slaty grey; primary-coverts and primaries dark brown, narrowly margined with slaty brown, the inner secondaries broadly edged with greyish white; ear-coverts, sides of face, and sides of neck slaty grey, rather blacker on the cheeks; behind the eye a small longitudinal mark of white feathers; entire throat and breast deep orange, fading off into orange-yellow on the flanks; lower abdomen and under tail-coverts white; thighs slaty grey; axillaries orange like the breast; under wing-coverts white, the edge of the wing mottled with greyish bases to the feathers; quills brown below, ashy whitish along the inner web; "bill black; feet brown; iris black" (*David*). Total length 4·7 inches, culmen 0·4, wing 3, tail 2·1, tarsus 0·6.

Obs. The description is taken from the Natuna-Island specimen mentioned below. Other specimens of adult males are very similar, but vary in the extent of black pervading the upper surface, which extends over the cheeks and sides of the neck, and also over the least wing-coverts. The specimens which exhibit these peculiarities are chiefly Bornean, and they may probably be putting on their full plumage before returning from their winter quarters; they are more richly coloured than Japanese or Chinese specimens in the collection of the Museum and of Mr. Seebohm.

Adult female. Different from the male. General colour above olive-brown, lighter on the rump, where it is yellower; upper tail-coverts blackish; tail brown, white at the base of the outer webs of the feathers; least wing-coverts olive like the back; remainder of the coverts brown, edged with olive, the greater series tipped with white; primary-coverts and quills brown, narrowly edged with olive, the inner secondaries with white; lores yellowish buff; round the eye a ring of buffy-white feathers; ear-coverts olive, with narrow whitish shaft-lines; cheeks slightly shaded with grey; under surface of body as in the male, but not so deep orange. Total length 4·5 inches, wing 0·4, tail 2·9, tarsus 0·6. (*Mus. H. Seebohm*.)

Young male. In general like the adult female, but much paler orange on the breast, with two buffy-white bars across the wing, composed of the tips to the median and greater coverts; sides of face grey, the cheeks more or less blackish; tail-feathers broadly white at base of outer web.

Young female. Like the young male, but with no white at the base of the tail-feathers.

Hab. Eastern Siberia, Japan, throughout China, migrating into the Malayan peninsula and Borneo.

| | | |
|--|---|--------------------------|
| <i>a.</i> ♂ ad. sk. | Japan. | Purchased. |
| <i>b.</i> ♀ ad.; <i>c.</i> ♀ juv. sk. | Tingchow, China, Dec. 1867. | R. Swinhoe, Esq. [C.]. |
| <i>d.</i> ♂ ad. sk. | 4° 30' N. lat., 106° E. long., north of the Natural Islands, Nov. 14, 1871 (<i>Capt. Conrad</i> .) | R. B. Sharpe, Esq. [P.]. |
| <i>e, f, g.</i> ♂ ad. sk. | Labuan. | Hugh Low, Esq. [C.]. |
| <i>h, i.</i> ♀ ad.; <i>k.</i> ♂ juv. sk. | Labuan. | Hugh Low, Esq. [C.]. |
| <i>l.</i> ♂ ad. sk. | Eastern Seas. | Sir E. Belcher [P.]. |

2. *Poliomyias hodgsoni*.

- *Siphia erythaca*, *Jerd. & Blyth, P. Z. S.* 1861, p. 201 (*nec Blyth*, 1847); *Jerd. B. India*, i. p. 480; *Godwin-Austen, J. A. S. B.* 1874, p. 158; *Hume, Str. F.* 1874, pp. 458, 475; *Walden in Blyth's B. Burma*, p. 103; *Hume, Str. F.* 1877, p. 137; *id. & Davison, Str. F.* 1878, p. 233.

Siphia hodgsoni, *Ferr. N. Arch. Mus.* vi. *Bull.* p. 34, vii. p. 29; *David, op. cit.* ix. pl. 4. fig. 4; *id. & Oustalet, Ois. Chine*, p. 115.

Adult male. General colour above slaty grey; upper tail-coverts blackish; tail-feathers dark brown, all white at the base excepting the two centre feathers; all the wing-coverts slaty grey like the back; quills brown, with lighter brown margins; sides of face slaty grey like the crown, the cheeks and feathers in front of the eye blackish; a slightly indicated line of white feathers on the sides of the crown behind the eye; entire throat and breast rich orange, yellowish on the lower flanks and under tail-coverts; lower abdomen white; thighs slaty grey; under wing-coverts and axillaries yellowish; quills brown below, whitish along the edge of the inner web; "bill black, lower mandible brown; legs and feet dark reddish brown; iris very dark brown" (*Hume and Davison*). Total length 5 inches, culmen 0.4, wing 3, tail 2.2, tarsus 0.65. (*Mus. H. H. Godwin-Austen*.)

Hab. Eastern Himalayas to Moupin in Western China, extending to Burmah and Tenasserim.

15. MUSCICAPULA.

Type.

Muscicapula, *Blyth, J. A. S. B.* xii. p. 939 (1843) *M. saphira*.

Range. Indian peninsula and Burmese countries, extending probably through Southern China to Formosa; Java; Sumatra.

Key to the Species.

Adult males.

Throat white.

a'. Upper surface blue; no white on the wing.

a''. Base of tail white; over the eye a broad white eyebrow *superciliaris*, p. 204.

b''. No white at base of tail; eyebrow lighter blue than the crown, but not white *astigma*, p. 205.

b'. Upper surface black; down the wing a white bar; a broad white eyebrow; tail white at base *maculata*, p. 207.

b. Throat rufous.

c'. Above slaty grey, with a white eyebrow *hyperythra*, p. 206.

d'. Above ultramarine, as also sides of face, sides of throat, neck and chest; head brighter cobalt *saphira*, p. 208.

Adult females.

a. Upper tail-coverts like the back, not rufescent or contrasting with the rump.

a'. Rusty buff colour of the throat confined to the throat itself *superciliaris*, p. 204.

- b. Rusty buff colour of the throat distributed over the whole under surface *astigma*, p. 205.
 c. Upper surface olivaceous, edges to the quills somewhat rufescent *hyperythra*, p. 206.
 b. Upper tail-coverts rufescent, contrasting with the back, the tail-feathers also washed with rufous.
 d. Throat bright orange, paling into buff on the breast and abdomen *sapphira*, p. 208.
 e. Throat and underparts white *maculata*, p. 207.

1. *Muscicapula superciliaris*.

- Muscicapula superciliaris*, *Jerd. Madr. Journ.* xi. p. 16 (1840); *Gray, Gen. B. i.* p. 262; *id. Hand-l. B. i.* p. 322, no. 4833.
Dimorpha albogularis, *Blyth, J. A. S. B.* xi. p. 190.
Muscicapula superciliaris, *Blyth, J. A. S. B.* xii. pp. 939, 962, xvi. p. 127; *id. Cat. B. Mus. A. S. B.* p. 172; *Bp. Consp. i.* p. 316; *Horsf. & Moore, Cat. B. Mus. F.I. Co. i.* p. 296; *Cock & Marsh. Str. F.* 1873, p. 353; *Godwin-Austen, J. A. S. B.* 1874, p. 157; *Ball, Str. F.* 1874, p. 405; *Brooks, S. F.* 1876, p. 235; *Ball, t. c.* p. 292; *Fairb. S. F.* 1876, p. 257.
Muscicapula acornaus, *Hodgs. Icon. ined. App.* no. 478*; *id. in Gray's Zool. Misc.* p. 84; *Gray, Hand-l. B. i.* p. 322, no. 4842.
Muscicapula ciliaris, *Hodgs. Icon. ined. Passeres*, pl. 206, fig. 2 (*Hodgs. no. 141*); *id. in Gray's Zool. Misc.* p. 84.
Muscicapula hemileucura, *Hodgs. Icon. ined. Passeres*, pl. 206, fig. 4 (*Hodgs. no. 631*), *App.* pl. 39 (no. 478); *id. in Gray's Zool. Misc.* p. 84; *Gray, Cat. Mamm. Sc. Nepal Coll. Hodgs.* p. 91, *App.* p. 155; *id. Hand-l. B. i.* p. 322, no. 4834.
Erythrosteron acornaus, *Blyth, Cat. B. Mus. A. S. B.* p. 171; *Bp. Consp. i.* p. 318; *Jerd. B. Ind. i.* p. 483; *Godwin-Austen, J. A. S. B.* 1874, p. 158; *Brooks, Str. F.* 1876, p. 236, et 1877, p. 471; *Hume & Davison, Str. F.* 1878, p. 233.
Muscicapula albogularis, *Gray, Cat. Mamm. Sc. Nepal Coll. Hodgs.* p. 90; *id. Hand-l. B. i.* p. 322, no. 4836.
Muscicapula hemileucura, *Horsf. & Moore, Cat. B. Mus. F.I. Co. i.* p. 297.
Muscicapula ciliaris, *Blyth, This*, 1866, p. 372.

Adult male. General colour above Prussian blue, the least and median wing-coverts uniform with the back; greater and primary coverts as well as the quills brown, slightly washed with blue externally; tail-feathers dusky brown, washed with blue on the edges, all with conspicuous white bases; lores and feathers in front of the eye dusky blue-black; cheeks and ear-coverts and sides of neck Prussian blue, duller than the back; from behind the eye a broad white streak running to the sides of the nape; throat pure white, the sides of it Prussian blue, extending down the sides of the neck and forming a half-collar across the breast; remainder of under surface white, the thighs dusky blue; under wing-coverts and inner lining of quills white; "bill black: legs dark grey; iris brown."

* Hodgson's drawings show that his *M. acornaus* is the female of *M. superciliaris*; but whether all the references under this name in the works of subsequent ornithologists are really referable to the species is a difficult matter to determine.

Total length 4·5 inches, culmen 0·45, wing 2·45, tail 1·65, tarsus 0·65.

Adult female. General colour above ashy olive, browner on the rump; wing-coverts and quills dusky brown, edged with pale rusty brown; tail-feathers dull brown, shaded with blue on their edges; lores and a ring of feathers round the eye and feathers in front of it rusty buff; ear-coverts ashy olive, with thread-like whitish shaft-lines; throat and breast rusty fulvous, shaded with ashy olive on the sides of the latter; rest of under surface pure white, washed with buff on the flanks; thighs brown; under wing-coverts buffy whitish, with brown bases to the feathers, the lower series and the quills below dull brown, edged with ashy white along the inner web. Total length 4·5 inches, wing 2·4, tail 1·65, tarsus 0·6.

Hab. Himalaya Mountains, visiting the plains of India in the cold weather; Burmese countries.

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| <i>a.</i> ♂ ad. sk. | India. | Purchased. |
| <i>b, c.</i> ♂ ad.; <i>d.</i> ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>e, f.</i> ♂ ad. st. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>g, h.</i> ♂ ♀ ad. sk. | Murree. | Capt. T. Biddulph [C.]. |
| <i>i.</i> ♀ ad. sk. | N.W. India (<i>Capt. G. F. L. Marshall</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>k, l.</i> ♂ ad.; <i>m, n.</i> ♀ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>o, p.</i> ♂ juv. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |

2. *Muscicapula astigma.*

Muscicapa astigma, *Hodgs. Icon. ind. Passeres*, pl. 206. fig. 3 (*Hodgs.* no. 64); *id. in Gray's Zool. Misc.* p. 84; *Gray, Cat. Mamm. &c. Nepal Coll.* *Hodgs.* p. 90, *App.* p. 155; *id. Hand-l. B.* i. p. 322, no. 4836.

Muscicapula astigma, *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 297, no. 460; *Blyth, Ibis*, 1866, p. 372; *Godwin-Austen, J. A. S. B.* 1874, p. 157, et 1876, p. 201.

Adult male. General colour above dull Prussian blue, lighter on the forehead and over the eye, forming an indistinct eyebrow; wing-coverts and quills brown, edged with dull blue; tail-feathers dusky brown, edged with dull blue, but with no white base to any of them; lores and feathers in front of eye blue-black; sides of face dull blue; throat and fore neck white, the sides blue as well as the sides of the neck and breast, forming an interrupted band across the latter of dull blue; remainder of under surface white, the thighs bluish; under wing-coverts white, the lower series dull brown, as also the quills below, edged along the inner web with buffy white; "bill black; legs dark brown" (*Godwin-Austen*). Total length 4 inches, culmen 0·45, wing 2·45, tail 1·8, tarsus 0·65.

Female. Very similar to that of *M. superciliaris*, but distinguished by the rusty buff-colour of the throat being distributed over the entire abdomen as well, leaving only the under tail-coverts dull white. Total length 4·5 inches, wing 2·2, tail 1·9, tarsus 0·6.

Hab. Eastern Himalaya mountains, extending to the Khasi hills.

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| a. ♀ juv. sk. | India. | Purchased. |
| b. ♂ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. (Type of species.) |

3. *Muscicapula hyperythra*.

Dimorpha superciliaris, *Blyth, J. A. S. B.* xi. p. 190 (*nec Jerd.*); *Bp. Consp.* i. p. 319.

Muscicapa hyperythra, *Blyth, J. A. S. B.* xi. p. 885, xvi. p. 127.

Muscicapula rubecula, *Blyth, J. A. S. B.* xii. p. 940.

Dimorpha rubrocyanæa, *Hodgs. Icon. ined.* no. 384; *id. in Gray's Zool. Misc.* p. 83; *id. P. Z. S.* 1845, p. 26.

Dimorpha leucocyanæa, *Hodgs. Icon. ined.* no. 837; *id. in Gray's Zool. Misc.* p. 83.

Muscicapa rubecula, *Gray, Gen. B.* i. p. 263.

Siphia superciliaris, *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 92; *Blyth, Cat. B. Mus. A. S. B.* p. 172; *id. Ibis*, 1865, p. 44, et 1866, p. 372.

Digenea superciliaris, *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 293; *Swinh. P. Z. S.* 1871, p. 381; *David & Oustalet, Ois. Chine*, p. 114.

Muscicapa tricolor, *Blyth, Ibis*, 1865, p. 44 (*c.c. Müll. MS. in Mus. Lugd.*, = ♂); *Gray, Hand-l. B.* i. p. 327, no. 4907.

Muscicapa rupestris, *Blyth, l. c.* p. 44 (*c.c. Müll. MS.*, = ♀).

Siphia innexa, *Swinh. Ibis*, 1866, p. 391.

Niltava superciliaris, *Gray, Hand-l. B.* i. p. 327, no. 4904.

Niltava innexa, *Gray, l. c.* p. 327, no. 4909.

Menetica superciliaris, *Cab. J. f. O.* 1876, p. 393.

Adult male. General colour above slaty blue, including the lores, sides of face, cheeks, and chin, darker on the latter; from the base of the forehead a distinct line of white feathers extending backwards over the eye; scapulars and wing-coverts uniform with the back, the greater series brown, tipped with rufous; quills brown, edged with olivaceous; tail blackish brown, the feathers edged with slaty grey; throat and breast orange-rufous, the abdomen and lower breast paler orange, inclining to whitish on the under tail-coverts; sides of upper breast slaty grey; thighs slaty grey, as also the under wing-coverts, the greater series tipped with orange; quills brown, fulvous along the inner webs; "bill black; legs plumbeous; iris brown" (*Jerdon*). Total length 4.1 inches, culmen 0.4, wing 2.3, tail 1.7, tarsus 0.7.

Young male. Mottled with ochraceous buff spots and streaks, like a young Robin.

Hab. Eastern Himalayas, Khasi hills, extending eastwards as far as the island of Formosa and south to Java and Sumatra and Timor.

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| a. Ad. sk. | Sumatra. | A. R. Wallace, Esq. [C.]. |
| b. ♂ ad. sk. | W. Java. | A. R. Wallace, Esq. [C.]. |
| c. ♂ juv. sk. | W. Java. | A. R. Wallace, Esq. [C.]. |
| d, e. ♂ ♀ ad. sk. | Darjiling. | Capt. C. H. T. Marshall [P.]. |
| f. ♂ ad. sk. | Sikkim, Nov. 1876. | L. Mandelli, Esq. [P.]. |
| g. Juv. sk. | Darjiling. | J. Fotheringham, Esq. [C.]. |
| h, i, k. ♂ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| l, m, ♀ ad.; n. Juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |

4. *Muscicapula maculata*.

Muscicapula maculata, *Tickell, J. A. S. B.* ii. p. 574; *Gray, Hand-l. B.* i. p. 322, no. 4841.

Muscicapula melanoleuca, *Blyth, J. A. S. B.* xi. p. 940, xv. p. 306 (*nec V.*); *id. Cat. B. Mus. A. S. B.* p. 172.

Muscicapula poonensis, *Blyth, J. A. S. B.* xi. p. 458.

Muscicapula acornans (*nec Hodgs.*), *Blyth, J. A. S. B.* xvi. p. 127.

Erythrostera pusilla, *Blyth, J. A. S. B.* xviii. p. 813; *id. Cat. B. Mus. A. S. B.* p. 171; *Bp. Consp.* i. p. 318; *Jerd. B. Ind.* i. p. 482; *Blyth, Ibis*, 1865, p. 41; *Ball, Str. F.* 1874, p. 405; *Hume, S. F.* 1875, p. 236; *Brooks, S. F.* 1875, p. 277, et 1877, p. 471.

Muscicapula leucoschista, *Hodgs. Icon. ined. Passeres*, pl. 206 (nos. 824, 942); *id. in Gray's Zool. Misc.* p. 84.

Muscicapula melanoleuca, *Gray, Gen. B.* i. p. 263; *id. Cat. Mamm. Sc. Nepal Coll. Hodgs.* p. 91.

Muscicapula maculata, *Bp. Consp.* i. p. 317.

Erythrostera maculata, *Jerd. B. Ind.* i. p. 483, no. 326; *Blyth, Ibis*, 1865, p. 44, et 1866, p. 373; *Godw.-Austen, J. A. S. B.* 1874, p. 158; *Ball, Str. F.* 1874, p. 407; *Hume, l. c.* p. 475; *Blyth & Wald. B. Burm.* p. 103; *Brooks, S. F.* 1875, pp. 236, 277; *Hume & Davison, Str. F.* 1878, p. 234.

Muscicapula pusilla, *Gray, Hand-l. B.* i. p. 323, no. 4843.

Muscicapula leucoschista, *Blyth, Ibis*, 1866, p. 372.

Adult male. General colour above glossy blue-black, including the lores, sides of face, and sides of neck; a broad white eyebrow running from nearly the base of the nostrils to the sides of the hind neck; wing-coverts like the back, the inner greater coverts white, excepting at the extreme base of the inner web, forming a large white patch; quills black, the inner secondaries* externally white like the greater coverts, and forming a bar down the wing; two centre tail-feathers entirely black, the others white for nearly two thirds of their length, black for the terminal third; entire under surface of body pure white, the sides of the upper breast black; thighs black; under wing-coverts white; quills blackish below, white along the edge of the inner web; "bill black; legs red-brown; iris dark brown" (*Jerdon*). Total length 4.2 inches, culmen 0.4, wing 2.3, tail 1.7, tarsus 0.6.

Adult female. Different from the male. General colour above ashy brown, washed with olive, the latter becoming more and more pronounced on the rump; the upper tail-coverts rufescent; wing-coverts like the back, the greater series ashy brown, narrowly edged with olive-brown and near the tip with whitish; primary-coverts and quills brown, externally edged with olive-brown, the secondaries more broadly; tail-feathers ashy brown, edged with ochraceous or rufous-brown near their bases; frontal plumes obscurely washed with ochraceous buff; lores dull white; round the eye a ring of buffy-white feathers; sides of face and ear-coverts ashy brown, with a slight olivaceous wash and indistinct shaft-lines of whitish; under surface of body dull white, tinged with fulvous on the breast and flanks; sides of neck and sides of upper breast ashy; thighs brown; under wing-coverts and axillaries white, slightly tinged with buff;

quills dull brown below, ashy along the edge of the inner web. Total length 4·1 inches, culmen 0·4, wing 2·2, tail 1·7, tarsus 0·6.

The female described was presented to the Museum by Mr. Mandelli, who collected it in April 1874. Another female, also obtained by Mr. Mandelli in October 1873, and presented by that gentleman, appears to be in winter plumage, as it differs from the bird described in its more pronounced olive-brown coloration, which shades off very perceptibly to fulvous brown on the rump, and to rufous on the upper tail-coverts and tail; below, the under surface is purer white, with less ashy on the sides of the breast and flanks.

Hab. Himalayas, ranging through the Burmese countries to Java, Sumatra, and Timor.

| | | |
|-------------------|--------------------|-------------------------------|
| a. ♂ ad. sk. | Sikkim, Apr. 1873. | L. Mandelli, Esq. [P.]. |
| b. ♀ ad. sk. | Sikkim, Oct. 1873. | L. Mandelli, Esq. [P.]. |
| c. ♀ ad. sk. | Sikkim, Apr. 1874. | L. Mandelli, Esq. [P.]. |
| d, e. ♂ ♀ ad. sk. | Darjiling. | Capt. C. H. T. Marshall [P.]. |
| f-i. ♂ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| k-o. ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| p. ♀ ad. sk. | Darjiling. | J. Fotheringham, Esq. [C.]. |
| q. ♂ ad. sk. | Sumatra. | Purchased. |

5. *Muscicapula sapphira*.

Muscicapa sapphira, Tickell, MSS., unde

Muscicapula sapphira, Blyth, J. A. S. B. xii. p. 939 (1843), xvi. pp. 127, 473; Hodgson, Drawings, App. pl. 101 (no. 945), pl. 102 (no. 974), pl. 112; Jerd. Ill. Ind. Orn. pl. 32; Bp. Consp. i. p. 316; Blyth, Cat. B. Mus. A. S. B. p. 173; Horsf. & Moore, Cat. B. Mus. E.I. Co. i. p. 295, no. 456; Jerd. B. Ind. i. p. 471; Swinh. P. Z. S. 1871, p. 380; Godwin-Austen, J. A. S. B. 1872, p. 172; David & Oustal. Ois. Chine, p. 120.

Muscicapa sapphira, Gray, Gen. B. i. p. 263; id. Hand-l. B. i. p. 322. *Siphia superciliaris*, Godwin-Austen, J. A. S. B. 1876, p. 201 (nec Blyth), = ♀.

Adult male. General colour above rich ultramarine-blue, the whole of the crown, rump, and upper tail-coverts more brilliant blue, inclining to cobalt on the forehead and over the eyes; a narrow frontal line, lores, sides of face, and ear-coverts black, the latter washed with blue like the sides of the neck; wing-coverts like the back; primary-coverts blackish; greater coverts and quills blackish externally, edged with rich blue; tail-feathers deep blue, black on the inner web; entire throat and fore neck rich orange; chin, cheeks, and sides of throat deep blue, descending onto the sides of the breast, and forming a half-collar; rest of under surface of body white, somewhat washed with grey; thighs blackish; under wing-coverts and axillaries white; "bill black; legs and feet pale reddish; iris brown" (II. J. *Elwes*). Total length 4·2 inches, culmen 0·35, wing 2·3, tail 1·75, tarsus 0·6.

Adult female. General colour above brown, tinged with reddish buff on the rump; upper tail-coverts rufous; tail-feathers brown, slightly washed with rufous on their margins; wing-coverts brown like the back, the greater series and the quills dusky brown, edged

with slightly more rufous-brown; primary-coverts entirely dark brown; forehead, a ring of feathers round the eye, and sides of face rufous-ochre, the latter washed with brown, with lighter shaft-lines; lores a little more whitish; entire throat, fore neck, and chest orange-buff, paler towards the centre of the body, which is whitish, the under tail-coverts somewhat washed with ochre; sides of body brown with a slight ochraceous shade; thighs dusky brown; under wing-coverts light buff, as also the inner edge of the quills below; axillaries conspicuously white, flanking the sides of the breast. Total length 4·3 inches, culmen 0·35, wing 2·25, tail 1·7, tarsus 0·6. (*Mus. H. J. Elwes.*)

Young male. Retaining for a time the brown plumage of the female, but with blue wings and tail, and with more or less blue on the lower back, rump, and upper tail-coverts. (*Mus. H. J. Elwes.*)

Hab. Eastern Himalayas, ranging into the mountains of Western China.

| | | |
|-------------------------|----------------|---------------------------|
| a. ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| b. ♂ ad. sk. | Native Sikkim, | L. Mandelli, Esq. [P.]. |
| | Apr. 1874. | |
| c. ♀ ad., d. ♂ juv. sk. | Sikkim. | L. Mandelli, Esq. [P.]. |

16. SMICRORNIS.

Type.

Smicrornis, Gould, *P. Z. S.* 1842, p. 133 *S. flavescens*.

Range. Confined to Australia.

Key to the Species.

- a. Colour above dull olive-yellow; lores, eyebrow, and ear-coverts light reddish brown; under surface pale yellowish buff *brevirostris*, p. 209.
- b. Colour above pale olive-yellow; lores and eyebrow whitish; under surface sulphur-yellow .. *flavescens*, p. 210.

1. *Smicrornis brevirostris*.

Psilopus brevirostris, Gould, *P. Z. S.* 1837, p. 187.

Smicrornis brevirostris, Gould, *B. Austr. folio*, ii. pl. 103; *Bp. Consp.*

i. p. 293; *Reichenb. Vög. Neuhol.* pp. 221, 283; Gould, *Handb. B.*

Austr. i. p. 273; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 183.

Pardalotus brevirostris, Gray, *Gen. B.* iii. *App.* p. 13; *id. Hand-l. B.*

i. p. 387, no. 5867.

Smicrornis occidentalis, *Bp. Consp.* i. p. 293*.

Acanthiza brevirostris, Gray, *Hand-l. B.* i. p. 223, no. 3149.

Adult male. General colour above dull olive-yellow, somewhat brighter on the upper tail-coverts; head umber-brown, contrasting with the back; wings dark brown, the coverts and quills margined with olive, the edgings of the primaries paler, as also of the innermost secondaries; tail-feathers ashy brown, the two centre ones

* Notwithstanding that Mr. Gould states his positive belief that the West-Australian bird is the same as *S. brevirostris*, Prince Bonaparte has given it a name.

with a blackish shade before the tip, the remainder with a broad subterminal band of black, the outer feathers with a spot of ashy whitish near the tip of the inner web; lores, feathers round the eye, and ear-coverts very pale rufous-brown, the light eyebrow fringed on its upper margin with a very narrow line of black; cheeks and under surface of body pale yellowish buff, becoming brighter olive-yellow on the lower abdomen and flanks, the sides of the breast brown; on the throat some small streaks of black; thighs brown; under wing-coverts white, slightly tinged with olive-yellow; quills ashy brown below, whitish along the edge of the inner web; "bill varying from fleshy white to ashy grey; feet blackish brown; iris pale straw-yellow" (*Gould*). Total length 3·4 inches, culmen 0·25, wing 2, tail 1·35, tarsus 0·6. (*Mus. Lugd.*)

Hab. Australia: Wide-Bay district; Richmond and Clarence rivers; N. S. Wales; Interior; Victoria; South Australia; West Australia. (*Ramsay*.)

a. Ad. sk.

Australia.

Sir T. Mitchell [P.].

2. *Smicrornis flavescens*.

Smicrornis flavescens, *Gould, P. Z. S.* 1842, p. 134; *id. B. Austr. folio*, ii. pl. 104; *Bp. Consp.* i. p. 293; *Reichenb. Vög. Neuhol.* pp. 100, 288; *Gould, Handb. B. Austr.* i. p. 274; *Castelnau & Ramsay, Proc. Linn. Soc. N. S. W.* i. p. 380; *Ramsay, op. cit.* ii. p. 183; *Masters, t. c.* p. 272.

Pardalotus flavescens, *Gray, Gen. B.* iii. *App.* p. 13; *id. Hand-l. B.* i. p. 387, no. 5868.

Adult male. General colour above pale olive-yellow, brighter on the lower rump and upper tail-coverts; crown of the head ashy brown; wings pale ashy brown, with lighter edges to the feathers; upper tail-coverts light brown, margined with olive-yellow; tail ashy brown, with large white spots at the tip of the inner web and a broad subterminal shade of black, the outer feathers ashy brown at the end of the outer web, which has also a narrow whitish margin; lores and a tolerably broad eyebrow whitish, the former margined with a narrow line of black-tipped feathers above; feathers below the eye and ear-coverts very pale rufous-brown; under surface of body sulphur-yellow, paler on the throat; axillaries yellow like the breast; under wing-coverts white, with a faint tinge of yellow; quills light brown below, whitish along the edge of the inner web; "iris silvery" (*Elsey*). Total length 3·4 inches, culmen 0·3, wing 1·85, tail 1·35, tarsus 0·55.

Obs. Although I do not separate this bird from Gould's *S. flavescens*, the eyebrow is white, not brownish, as in the plate given by the latter author, who, however, makes no mention of this feature in his description.

Hab. Northern Australia, Port Darling, Port Essington, Gulf of Carpentaria.

a. ♂ ad. sk.

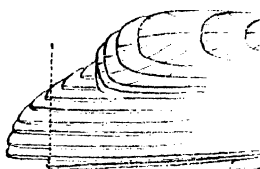
Gilbert River, Oct. 30, 1856;

J. R. Elsey, Esq. [P.].

lat. 18° 30', long. 143°.

17. GERYGONE*.

Psilopus, Gould, P. Z. S. 1837, p. 146 (*nec* Poli, 1795) Type. G. albigularis.
 Gerygone, Gould, P. Z. S. 1842, p. 133 (*nom. emend.*).. G. albigularis.

Wing of *Gerygone albigularis*.

Range. Australia and South-eastern New Guinea, as well as the islands of Celebes, Borneo, the Philippine archipelago, and the Timor group.

Key to the Species.

- a. Throat white.
 - a'. Breast yellow.
 - a". Larger; wing 2·25 inches: upper surface ashy olive *albigularis*, p. 212.
 - b". Smaller; wing 2·15 inches: upper surface ashy, without any olive tinge *cinerascens*, p. 212.
 - b'. Breast white, like the throat.
 - c". Outer tail-feathers white across the tip of both webs. *inornata*, p. 213.
 - d". Outer tail-feathers ashy brown at the tip, with a small spot of white near the tip of the inner web *simplex*, p. 213.
- b. Throat yellow, as also the rest of the under surface.
 - c'. Lores yellow, as well as an eyebrow *albigularis* juv.,
 - d'. Lores white. [p. 212.]
 - e'. No ring of yellow feathers round the eye.
 - a"". Larger; wing 2·15 inches: below bright yellow; tail-feathers uniform, with a whitish mark at the tip of the inner web. *flaveola*, p. 214.

* The following species, referred by Mr. Gray (Hand-l. B. i. pp. 219, 220) to his subgenus *Gerygone*, do not belong to that genus:—

1. GERYGONE SUPERCILIOSA, Wall. P. Z. S. 1863, p. 491.

Acanthiza superciliosa, Gray, Hand-l. B. i. p. 219, no. 3133.

Hab. Timor.

1s *Phylloscopus presbytis* (Blyth); Seebohm, Ibis, 1877, p. 83.

2. ZOSTEROPS CITRINELLA, Gray, P. Z. S. 1858, p. 175 (*nec* Müll.); *id.* Cat. B. New Guinea, p. 25.

Zosterops grayi, Wall. P. Z. S. 1863, p. 494.

Acanthiza grayi, Gray, Hand-l. B. i. p. 220, no. 3145.

Hab. Ké Islands.

This is a *Zosterops*.

- b'''*. Smaller; wing 1·85 inch: below pale yellow; tail-feathers not uniform, ashy whitish below, with a broad median black band across them, and a large white spot at the tip of the inner web *sulfurea*, p. 214.
f'''. Round the eye a ring of yellow feathers.... *hypoxantha*, p. 215.

1. *Gerygone albigularis*.

- Psilopus albigularis*, *Gould*, *P. Z. S.* 1837, p. 147; *id. Syn. B. Austr.* part iv.
Psilopus olivaceus, *Gould*, *P. Z. S.* 1837, p. 147; *id. Syn. B. Austr.* part iv.
Gerygone albigularis, *Gould*, *B. Austr.* folio, ii. pl. 97; *Bp. Consp.* i. p. 292; *Reichenb. Vög. Neuhol.* pp. 70, 288; *Ramsay, P. Z. S.* 1866, p. 576; *Finsch, Neu-Guinea*, p. 166; *Gould, Handb. B. Austr.* i. p. 266; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 183; *Sharpe, Notes Leyden Mus.* i. no. 9, p. 28.
Acanthiza albigularis, *Gray, Gen. B.* i. p. 189; *id. Hand-l. B.* i. p. 219, no. 3127.
Acanthiza olivacea, *Gray, Gen. B.* i. p. 189.

Adult. General colour above olive-brown, rather more ashy brown on the head, and decidedly more so on the upper tail-coverts; tail-feathers ashy brown, with a broad subterminal shade of blackish brown, the inner web with a white band about the middle of the feather and a white spot at the tip, the two centre feathers without the white spots; wing-coverts and quills dark brown, externally edged with ashy brown, the edges of the quills light ashy; sides of face ashy brown like the head, a little rufescent round the eye and on the ear-coverts; a loreal streak of white; cheeks and throat white; rest of under surface of body bright yellow, paler on the under tail-coverts; under wing-coverts and axillaries whitish, with a slight tinge of yellow; quills light brown below, edged with whitish along the inner web; "bill blackish brown; feet blackish brown in some specimens, leaden brown in others; iris scarlet" (*Gould*). Total length 4 inches, culmen 0·35, wing 2·25, tail 1·7, tarsus 0·65.

Sexes alike (*Gould*).

Young. Differs from the adult in the throat being yellow like the rest of the under surface.

Hab. N.E. Australia and the whole of Eastern Australia to New South Wales.

| | | |
|-----------------------|---------------------------------|------------|
| <i>a</i> . Ad. sk. | Cape York (<i>Cockerell</i>). | Purchased. |
| <i>b, c</i> . Ad. st. | Australia. | |

2. *Gerygone cinerascens*.

- Gerygone cinerascens*, *Sharpe, Journ. Linn. Soc., Zool.* xiii. p. 494;
id. Notes Leyden Mus. i. no. 9, p. 28.

Adult (type of species). General colour above ashy brown, with a faint tinge of olive on the rump; wing-coverts brown, narrowly edged with whitish brown; quills brown, externally edged with whitish

brown, these edges broader on the secondaries; two centre tail-feathers ashy brown, subterminally darker brown; rest of the tail-feathers ashy brown, with a large white spot on the tip of the inner web, before which is a large subterminal bar of black, the inner web below this having another white notch; at the base of the bill a line of white feathers; region of the eye and ear-coverts light brown; cheeks and entire throat pure white; rest of under surface of body bright yellow, paling on the thighs and under tail-coverts; under wing-coverts white, the quills greyish brown, with white edgings along the inner webs. Total length 3·4 inches, culmen 0·45, wing 2·15, tail 1·45, tarsus 0·7.

Another specimen from N.W. Australia is probably the same as the New-Guinea bird, but it is very much crushed and a bad skin, and seems to have whitish ear-coverts instead of brown. This may, however, be due to the bad preparation and shifting of the feathers.

Hab. N.W. Australia; S.E. New Guinea.

| | | |
|---------------|--|--|
| a. Ad. sk. | Port Moresby. | O. C. Stone, Esq. [C.] (Type of species.) |
| b. ♀ juv. sk. | Depôt, Victoria River, November 1855. | J. R. Elsey, Esq. [P.] |

3. *Gerygone inornata*. (Plate V. fig. 1.)

Gerygone inornata, Wallace, *P. Z. S.* 1863, p. 490; *Finsch, New-Guinea*, p. 166; *Sharpe, Notes Leyden Mus.* i. no. 9, p. 28.

Acanthiza inornata, Gray, *Hand-l. B.* i. p. 219, no. 3132.

Adult male (type of species). General colour above ashy brown, the wing-coverts and quills darker brown, margined with the same colour as the back; tail-feathers light brown, with a subterminal shade of blackish brown, all the feathers, excepting the two centre ones, with a rounded spot of white at the tip of the inner web, increasing in extent on the outer feathers, gradually extending to the tip of the outer web also, till, in the outermost feather, the terminal third is white, with a small brown apical spot, the outer web being also narrowly white for nearly its whole extent; lores with an obscure spot of white; sides of face and ear-coverts like the head, a little paler only; cheeks and under surface of body white, as also the under wing-coverts, axillaries, and inner edge of the quills below; thighs white, with brown bases. Total length 4 inches, culmen 0·4, wing 2·1, tail 1·5, tarsus 0·7.

Adult female. Similar in plumage to the male. Total length 3·7 inches, culmen 0·4, wing 2·05, tail 1·5, tarsus 0·6.

Hab. Timor.

| | | |
|-----------------|--------|---|
| a, b. ♂ ad. sk. | Timor. | A. R. Wallace, Esq. [C.] (Types of species.) |
| c. ♀ ad. sk. | Timor. | A. R. Wallace, Esq. [C.] |

4. *Gerygone simplex*.

Gerygone modesta, Cab. *J. f. O.* 1866, p. 10 (*nec* Pelz.).

Acanthiza, sp., Gray, *Hand-l. B.* i. p. 220, no. 3147.

Gerygone simplex, *Cab. J. f. O.* 1872, p. 316; *Walden, Tr. Z. S.* ix. p. 194; *Sharpe, Tr. Linn. Soc. n. s. i.* p. 352; *id. Notes Leyden Mus.* i. no. 9, p. 28.

Adult (Luzon, *Jagor*; type of species). General colour above ashy brown, the wing-coverts and quills dark brown, externally margined with pale ashy brown; tail-feathers light ashy brown, with a broad subterminal bar of black, the outer feathers having a small white spot near the tip of the inner web; lores yellowish white; feathers in front of and round the eye ashy white; ear-coverts light ashy brown; cheeks and under surface of body white, with a slight wash of buff on the breast; under wing-coverts and axillaries white; quills ashy below, whitish along the inner web. Total length 3·8 inches, culmen 0·4, wing 2, tail 1·45, tarsus 0·6. (*Mus. Berol.*)

Hab. Island of Luzon, Philippine archipelago.

5. *Gerygone flaveola*. (Plate V. fig. 2.)

Gerygone flaveola, *Cab. J. f. O.* 1873, p. 157; *Meyer, t. c.* p. 404; *Salvad. Ann. Mus. Civic. Genov.* vii. p. 665; *Sharpe, Notes Leyden Mus.* i. no. 9, p. 28.

Adult (Macassar, *Dr. A. B. Meyer*; type of species). General colour above dark ashy brown, a trifle more grey on the head; least and median wing-coverts like the back; greater coverts and quills dark brown, with lighter brown edges, faintly tinged with olive on the quill-margins; tail-feathers brown, with a subterminal shade of darker brown, the outer feathers with a small spot of white near the tip of the inner web; lores, feathers in front of the eye extending onto the upper eyelid, white; ear-coverts ashy brown, strongly washed with yellow; cheeks and under surface of body bright yellow, becoming whiter on the sides of the vent and under tail-coverts; thighs brown; under wing-coverts and axillaries white, washed with yellow along the outer edge of the wing; quills brown below, whitish along the inner web. Total length 3·8 inches, culmen 0·45, wing 2·15, tail 1·5, tarsus 0·7. (*Mus. Berol.*)

Hab. Celebes; Borneo (*Schwane, Mus. Lugd.*).

a. ♂ ad. sk. Celebes (*Von Rosenberg*). Leiden Museum [P.].

6. *Gerygone sulfurea*.

Gerygone sulfurea, *Wallace, P. Z. S.* 1863, p. 490; *Finsch, Neu-Guinea*, p. 166; *Sharpe, Notes Leyden Mus.* i. no. 9, p. 28.
Acanthiza sulphurea, *Gruy, Hand-l. B. i.* p. 220, no. 3146.

Adult (type of species). General colour above ashy brown, washed with olive on the back and rump; upper tail-coverts slightly darker brown; tail-feathers light ashy brown, with a subterminal shade of darker brown, with a spot of white near the end of the inner web, the outermost feather with a subterminal white mark on the outer web as well as the inner; wing-coverts brown, edged with ashy

brown, slightly tinged with olive on the primaries, the secondaries with paler ashy margins; sides of face ashy brown, rather darker on the ear-coverts; in front of the eyes a loreal spot of dull white; cheeks and entire under surface of body sulphur-yellow; under wing-coverts and axillaries white, washed with pale yellow; quills brown below, edged with white along the inner web. Total length 3·6 inches, culmen 0·4, wing 1·85, tail 1·4, tarsus 0·65.

Hab. Island of Solor.

a. Ad. sk. Solor. A. R. Wallace, Esq. (Type of species.)

7. *Gerygone hypoxantha*.

Gerygone xanthogaster, *Mus. Lugd.*

Gerygone hypoxantha, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 345;

Sharpe, Notes Leyden Mus. i. no. 9, p. 28.

Adult male (Misor, *Von Rosenberg*; type of species). General colour above dull olive-brown, more dingy on the head; wing-coverts and quills dark brown, edged with the same olive-colour as the back, a little brighter on the primaries; tail-feathers dark brown, edged with olive and lighter ash-colour at the tips, before which is a shade of black forming an indistinct bar; lores yellowish white; in front of the eye a spot of dusky black; round the eye a ring of yellow; sides of face and cheeks yellow, with an olive shade on the upper margin of the ear-coverts; under surface of body yellow from the chin to the vent, the sides of the upper breast olive-brown, the flanks washed with olive; under wing-coverts white, washed with yellow. Total length 3·7 inches, culmen 0·45, wing 1·95, tail 1·45, tarsus 0·6. (*Mus. Lugd.*)

Adult female. Like the male, but a little duller in colour. Total length 3·6 inches, culmen 0·5, wing 2, tail 1·5, tarsus 0·6. (*Mus. Lugd.*)

Hab. Island of Soek or Misor, in the Bay of Geelvink.

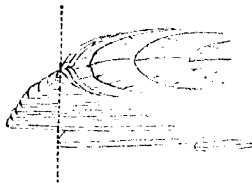
18. PSEUDOGERYGONE.

Gerygone, pt., *auct. recent.*

Pseudogerygone, *Sharpe, Notes Leyden Mus.* i. no. 9,
p. 28 (1878).

Type.

P. personata.



Wing of *Pseudogerygone personata*.

Range. New Guinea and adjacent islands, ranging over the whole of Australia and New Caledonia.

Key to the Species.

- a.* With the throat pale, white, grey, or yellow, as the case may be, but not blackish or dark brown.
- a'.* With a subterminal bar of black on the tail-feathers, the outermost of which have a more or less distinct pale spot near the tip of the inner web.
- a''.* Spot at the tip of the inner web white, more or less conspicuous.
- a'''.* Ear-coverts and throat of the same colour.
- a⁴.* Tail not white at base.
- a⁵.* Throat and ear-coverts greyish.
- a⁶.* No white eye-ring *igata*, p. 218.
- b⁶.* A white eye-ring *modesta*, p. 219.
- b⁵.* Throat and ear-coverts pale rufous, the breast and abdomen white . . . *ruficollis*, p. 220.
- b⁴.* Tail white at base *culicivora*, p. 220.
- b'''.* Ear-coverts differently coloured from the throat.
- c⁴.* Upper surface ashy grey *cinerea*, p. 220.
- d⁴.* Upper surface brown of some shade or other.
- c⁵.* Size smaller; wing 1.9 to 2.25 inches; upper tail-coverts and outer base of tail-feathers brown.
- c⁶.* No light eyebrow; bill entirely black; at base of forehead a narrow loreal line of white; round the eye a ring of white feathers.
- a⁷.* Ear-coverts reddish brown; breast and sides of body reddish brown *brunneipectus*, p. 221.
- b⁷.* Ear-coverts light brown like the head; breast washed with pale ochre-brown, as also the flanks, both with a yellowish tinge *conspicillata*, p. 221.
- d⁶.* No light eyebrow or white ring round the eye; bill black, but pearly white at the base of the lower mandible; no white line along base of the lores *magnirostris*, p. 222.
- e⁶.* A light eyebrow, white or grey, continued from the lores over the fore part of the eye.
- c⁷.* Flanks bright sulphur-yellow; back olive-brown, contrasting with the ashy head and neck *flavilateralis*, p. 222.
- d⁷.* Flanks whitish or fawn-coloured; head and back of the same colour.

- a⁵. Throat greyish; ear-coverts
 * grey; eyebrows greyish
 white..... *fusca*, p. 223.
- b⁵. Throat white like the rest
 of the under surface; ear-
 coverts brown; eyebrow
 pure white..... *lavigastra*, p. 223.
- d⁵. Size larger; wing 2.75 inches: up-
 per tail-coverts and outer base of
 tail-feathers fawn-colour..... *albifrontata*, p. 224.
- b⁶. Spot at the tip of the inner web of the
 tail-feathers rufous-brown; throat pale
 rufous like the rest of the under surface. *rufescens*, p. 225.
- b⁷. Tail uniform black without any subterminal
 bar, the inner web with a white spot near
 the tip; upper surface of body dark
 crimson..... *rubra*, p. 225.
- c⁷. Tail uniform brown with olive margins: no
 black subterminal bar or white spot near
 the tip of the inner web.
- c⁸. Bill entirely black, the lower mandible
 black like upper.
- c⁹. Throat and breast white; abdomen,
 flanks, thighs, and under tail-coverts
 yellow..... *chrysogastra*, p. 226.
- d⁹. Entire under surface of body yellow,
 excepting a whitish shade on the throat
 and cheeks..... } *personata* ♀, p. 230.
 e⁹. Under surface of the body whitish down } *palpebrosa* ♀, p. 230.
 the centre; the sides of breast, flanks,
 thighs, and under tail-coverts brown
 or greyish brown..... *arabiana*, p. 226.
- d¹⁰. Bill with the lower mandible yellowish,
 with a brown spot towards the tip.
- f¹⁰. Feet pale; head almost of the same
 colour as the back.
- e¹¹. Median and greater wing-coverts
 spotted with white at the tip.... *notata*, p. 227.
- f¹¹. Median and greater coverts not spotted
 with white.
- e¹². Throat whitish, as also the under
 surface of body, the flanks washed
 with dull yellow; axillaries white,
 tinged with yellow..... *neglecta*, p. 227.
- f¹². Throat and centre of body yellow,
 the sides of the body greenish;
 axillaries yellow..... *trochiloides*, p. 228.
- g¹². Feet dark; head grey, contrasting with
 the greenish back.
- g¹³. No white eyebrow.
- g¹⁴. A yellow wing-bar, formed of the
 tips to the greater coverts; under
 surface pale yellow, the sides of
 the body dark greenish..... *maforensis*, p. 228.
- h¹⁴. No yellow wing-bar; under sur-
 face white, the sides of the body
 yellow..... *chloronota*, p. 229.

- h⁴. A distinct white eyebrow; throat white; rest of under surface yellow *poliocephala*, p. 229.
- b. Throat dark, forming a patch of black or brown contrasting with the breast; forehead and sides of face brown or black like the throat, the cheeks and a loreal spot of white forming a strong contrast; bill entirely black.
- e". Sides of face and throat brown *personata* ♂, p. 229.
- f". Sides of face and throat black *palpebrosa* ♂, p. 230.

1. *Pseudogerygone igata*.*

Curruca igata, Quoy et Gaim. *Voy. de l'Astrol.*, Zool. i. p. 201, pl. 11. fig. 2.

Gerygone flaviventris, Gray, *Voy. Ereb. & Terror, Birds*, p. 5, pl. 4. fig. 1; *Bp. Consp.* i. p. 293; Gray, *Ibis*, 1862, p. 221; Buller, *B. New Zealand*, p. 107; Finsch, *J. f. O.* 1872, p. 160, et 1874, p. 186; Sharpe, *Voy. Erebus & Terr., Birds, App.* p. 25; Gillis, *Tr. N. Zeal. Inst.* vii. p. 524; Buller, *op. cit.* viii. p. 190; Finsch, *op. cit.* p. 201.

Acanthiza igata, Gray, in Dieffenb. *Trav.* ii. *App.* p. 189; *id. Hand-l. B.* i. p. 220, no. 3141.

Acanthiza flaviventris, Gray, *Gen. B.* i. p. 189; *id. Hand-l. B.* i. p. 219, no. 3129.

Gerygone igata, *Bp. Consp.* i. p. 293; Gray, *Ibis*, 1862, p. 221; Pelz. *Reis. Novara, Vög.* p. 65; Finsch, *J. f. O.* 1872, p. 162, et 1874, p. 187; Buller, *B. N. Zeal., Intr.* p. xv; Sharpe, *Voy. Ereb. & Terror, Birds, App.* p. 25.

? *Gerygone aucklandica*, Pelz. *Reis. Novara, Vög.* p. 65.

Gerygone assimilis, Buller, *Essay on N. Zeal. Orn.* p. 9.

Acanthiza assimilis, Gray, *Hand-l. B.* i. p. 220, no. 3142.

Acanthiza aucklandica, Gray, *Hand-l. B.* i. p. 220, no. 3140; Giebel, *Orn. Thesaurus*, p. 257.

Pseudogerygone igata, Sharpe, *Notes Leyden Mus.* i. no. 9, p. 29.

Adult male. General colour above dark olive-brown, with a more distinct olive tinge on the back and rump; upper tail-coverts rather lighter; tail-feathers ashy brown with a broad antesubterminal shade of black, all but the centre feathers with a distinct subtermi-

* The following species is unknown to me, and Mr. Potts, who separates the bird as distinct from *P. igata* (vel *flaviventris*) on account of the different song, does not give any specific characters:—

PSUEDOGERYGONE SYLVESTRIS.

Gerygone sylvestris, Potts, *Tr. N. Zeal. Inst.* v. p. 177, vi. p. 144; Finsch, *Tr. N. Zeal. Inst.* vii. p. 229.

If Von Pelzeln's *Pseudogerygone aucklandica* be really distinct from *P. igata*, Mr. Pott's species might have to bear that name.

Adult male. Upper surface dark olivaceous; wings smoky black, except first two feathers, outer webs fringed with yellow; cheek dark grey, darkest in a line from the gape through the eye; chin grey; neck and breast pale grey; abdomen white; under wing-coverts white; upper wing-coverts brown, margined with yellow; upper tail-coverts slaty black, tipped with yellow; tail brown, with a broad band of black, two centre feathers black, tipped with brown, four feathers on each side tipped with white on inner webs, pale brown on outer webs, two outer feathers broadly barred with white, tipped with brown. Bill black, both mandibles horn-colour at the point; legs and feet black; inside of feet yellowish flesh; irides bright blood-red. Bill from gape 6 lines, wings from flexure 2 inches, tail 2 inches 2 lines, tarsus 9 lines, middle toe and claw 5 lines; total length 4 inches 5 lines.

Hab. Westland, New Zealand.

nal white bar; median and lesser wing-coverts like the back; greater coverts and quills brown, narrowly edged with olive-brown; lores and an indistinct eyebrow dark grey; feathers in front of and round the eye blackish; ear-coverts and sides of neck dark ashy grey, the latter washed with olive; cheeks and under surface of body lighter ashy, inclining to white on the abdomen, flanks, and under tail-coverts; thighs ashy brown; under wing-coverts slightly washed with olive; quills brown below, whitish along the edge of the inner web; "bill, tarsus, and toes dark brown; iris red" (*Buller*). Total length 4.1 inches, culmen 0.4, wing 2.1, tail 1.8, tarsus 0.8.

Adult female. Similar to the male. Total length 4 inches, culmen 0.4, wing 1.9, tail 1.7, tarsus 0.75.

Young. Similar to the adult, but browner above, and washed with pale yellow on the sides of the body.

Hab. New Zealand.

| | | |
|-------------------|------------------------------------|----------------------------|
| a, b. ♂ ♀ ad. sk. | New Zealand (<i>F. Strange</i>). | Capt. Stokes [P.]. |
| c. Juv. sk. | Bay of Islands, N. Z. | Antarctic Expedition [C.]. |
| d. Juv. sk. | New Zealand. | Zoological Society. |

2. *Pseudogerygone modesta*.

Gerygone modesta, *Pelz. Sitz. k. Akad. Wien*, xli. p. 320; *Gray, Ibis*, 1862, p. 221.

Acanthiza modesta, *Gray, Hand-l. B.* i. p. 220, no. 3139.

Pseudogerygone modesta, *Sharpe, Notes Leyden Mus.* i. no. 9, p. 29.

Adult. General colour above brown, with a slight olivaceous brown tinge on the rump and upper tail-coverts; lesser and median wing-coverts like the back; greater and primary-coverts, as well as the quills, dark brown, narrowly edged with olive-brown margins; tail-feathers ashy brown, edged with olive, with an antesubterminal shade of black forming a broad band across the end of the tail, all but the centre feathers having a small spot of white near the tip of the inner web, increasing in extent towards the outermost; lores obscure grey, forming an almost imperceptible streak over the fore part of the eye; round the latter a ring of white feathers, and in front of it a blackish spot; sides of face ashy, darker on the upper edge of the ear-coverts; throat and breast ashy; the abdomen, flanks, and under tail-coverts white, strongly washed with buff; thighs ashy; under wing-coverts and axillaries dull white, washed with yellow; thighs ashy; quills brown below, whitish along the inner web; "eyes black" (*Brenchley*). Total length 4.2 inches, culmen 0.45, wing 2.05, tail 1.75, tarsus 0.8.

Hab. Norfolk Island.

| | | |
|------------|----------------------------|--------------------------|
| a. Ad. sk. | Norfolk Island, June 1865. | J. Brenchley, Esq. [P.]. |
|------------|----------------------------|--------------------------|

3. *Pseudogerygone ruficollis*.

Gerygone? *ruficollis*, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 959.

Pseudogerygone ruficollis, *Sharpe, Notes Leyden Mus.* i. no. 9, p. 29.

Female (Atam, June 26, 1875, *Baccarì*; type of species). General

colour above umber-brown; wings blackish brown, the coverts and quills edged with paler brown, inclining to whitish brown on the secondaries; tail-feathers brown, with a broad black bar near their ends, all but the centre feathers having a conspicuous white spot near the tip of the inner web; lores and an indistinct eyebrow rufous-brown; eyelid buffy whitish; in front of the eye a blackish spot; sides of face, throat, and fore neck light rufous; remainder of the body white, the sides of the upper breast brown; sides of body slightly washed with brown; under wing-coverts and axillaries white; quills dark brown below, whitish along the inner webs. Total length 3·7 inches, culmen 0·45, wing 2, tail 1·4, tarsus 0·65. (*Mus. Civic. Genov.*)

Hab. Atam, N.W. New Guinea.

4. *Pseudogerygone culicivora*.

Psilopus culicivorus, Gould, *P. Z. S.* 1840, p. 176.

Gerygone culicivora, Gould, *B. Austr. folio*, ii. pl. 99; *Bp. Consp. i.* p. 293; *Reichenb. Vög. Neuholl.* pp. 71, 288; Gould, *Handb. B. Austr. i.* p. 268; Ramsay, *Pr. Linn. Soc. N. S. W.* ii. p. 183.

Acanthiza culicivora, Gray, *Gen. B. i.* p. 189; *id. Hand-l. B. i.* p. 219, no. 3135.

Pseudogerygone culicivora, Sharpe, *Notes Leyden Mus. i.* no. 9, p. 29.

Adult male. General colour above ashy brown, the wing-coverts and quills with narrow margins of lighter brown, inclining to whitish on the secondaries; tail white at base, the more central feathers with the extreme bases blackish; the two middle feathers ashy brown, with a subterminal shade of black, all the others with a broad band of black before the end of the tail, the outer feather tipped with white, the others with a large spot of white at the tip of the inner web; lores and sides of face light ash-colour, with a spot of dusky brown feathers in front of and behind the eye; upper and lower margin of eyelid whitish; throat and chest ashy whitish, becoming purer white on the abdomen and under tail-coverts, the sides of the body washed with ochraceous buff; thighs brown; under wing-coverts white, the quills ashy brown below, edged with whitish along the inner web; "bill and feet black; iris light reddish yellow" (Gould). Total length 4 inches, culmen 0·4, wing 2·25, tail 1·8, tarsus 0·75. (*Mus. Lugd.*)

Hab. Western Australia.

5. *Pseudogerygone cinerea*.

Gerygone? cinerea, Salvad. *Ann. Mus. Civic. Genov.* vii. p. 958.

Pseudogerygone cinerea, Sharpe, *Notes Leyden Mus. i.* no. 9, p. 29.

Adult male (Atam, July 1, 1875, Beccari; type of species). General colour above ashy grey, the crown slightly mottled with blackish bases to the feathers; wings browner than the back, the wing-coverts and quills very narrowly edged with ashy grey; feathers of the rump tipped with white, forming a bar across; tail-feathers brown, margined with ashy grey, and crossed with an indistinct band of black near the tip, the outermost with a small, nearly obsolete whitish mark near the end of the inner web; lores

and sides of face ashy grey; round the eye a dull whitish ring; under surface of body white, the sides of the upper breast ashy, and the flanks slightly washed with the latter colour; thighs greyish. Total length 3·8 inches, culmen 0·4, wing 1·9, tail 1·3, tarsus 0·65. (*Mus. Civic. Genov.*)

Adult female. Like the male. Total length 3·5 inches, culmen 0·4, wing 2, tail 1·4, tarsus 0·65.

Hab. Atam, N.W. New Guinea.

6. *Pseudogerygone brunneipectus.*

Gerygone magnirostris, *Salvad. Ann. Mus. Civic. Genov.* ix. p. 25 (*nec Gould*).

Pseudogerygone brunneipectus, *Sharpe, Notes Leyd. Mus.* i. no. 9, p. 29.

Adult male. Above dark chocolate-brown, slightly more rufous-brown on the upper tail-coverts; tail-feathers brown, edged with rufous-brown, and having a broad subterminal bar, the outermost with a faint indication of a pale spot near the tip of the outer web; wings brown, the coverts and quills edged with the same brown as the back, and slightly washed with olive; near the base of the bill a narrow loreal line of whitish; spot in front of the eye blackish; eyelid white; ear-coverts reddish brown; throat white; rest of under surface of the body light ochraceous brown, paler on the abdomen; under wing-coverts and axillaries dull whitish, washed with brown; quills blackish brown, ashy along the edge of the inner webs. Total length 4·2 inches, culmen 0·55, wing 2·25, tail 1·7, tarsus 0·7.

Young. Tinged with yellow on the underparts, and with olive on the back and wings; the white spots on the tail-feathers more distinct; throat dull white; breast yellow, obscured with brownish edges to the feathers. (*Mus. Civic. Genov.*)

Obs. A species very doubtfully distinct from *P. conspicillata*, with which Count Salvadori was inclined to identify it after comparing his specimens with the type in the British Museum.

Hab. North Australia (*Mus. Goldman*), South-eastern New Guinea (*Mus. Genov.*), and the Aru Islands.

a. ♂ ad. sk. Aru Islands (*Von Rosenberg*). Leiden Museum [P.].

7. *Pseudogerygone conspicillata.*

Microeca conspicillata, *Gray, P. Z. S.* 1859, p. 156; *Finsch, New-Guinea*, p. 170; *Gray, Hand-l. B.* i. p. 324, no. 4859.

Sylvia virescens, *Blyth, Ibis*, 1870, p. 169 (*ex Müll. MS. in Mus. Lugd.*).

Gerygone affinis, *Meyer, Sitz. b. Akad. Wissensch. Wien*, lxx. p. 116;

Salvad. Ann. Mus. Civic. Genov. vii. p. 958.

Gerygone conspicillata, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 343.

Pseudogerygone conspicillata, *Sharpe, Notes Leyd. Mus.* i. no. 9, p. 29.

Adult female (type of species). General colour above olive-brown, a little duller on the head; wing-coverts and quills dark brown, margined with a narrow edging of the same colour as the back, a little more olive on the secondaries; tail-feathers ashy brown, edged with olive; a shade of darker brown before the ends of the feathers, which are lighter and more ashy brown; in front of the eye a dusky

brown patch; sides of the face and ear-coverts brown; a loreal spot of white; eyelid white above and below, brown in front and behind; cheeks and throat white, as also the centre of the abdomen and under tail-coverts; the sides of the body slightly fulvescent, more distinctly tinged with fulvous-brown on the fore neck; under wing-coverts white, with a slight yellowish tinge; quills brown below, with whitish edgings to the inner web. Total length 4 inches, culmen 0.45, wing 2.1, tail 1.6, tarsus 0.65.

Hab. New Guinea, Island of Jobi.

- a. ♀ ad. sk. Dorey, New Guinea. A. R. Wallace, Esq. [C.]
(Type of species.)
b. Ad. sk. Dorey, N. G. A. R. Wallace, Esq. [C.]
c. ♀ ad. sk. Sorong, Salwatti, Feb. 8, Leiden Museum [P.]
1868 (*Dr. Bernstein*).

8. *Pseudogerygone magnirostris*.

Gerygone magnirostris, Gould, *P. Z. S.* 1842, p. 133; *id. B. Austr.* fol. ii. pl. 100; *Bp. Consp.* i. p. 293; *Reichenb. Vög. Neuholl.* pp. 220, 288; *Finsch, Neu-Guinea*, p. 166; Gould, *Handb. B. Austr.* i. p. 270; *Ramsay, Tr. Linn. Soc. N. S. W.* ii. p. 183.

Acanthiza magnirostris, Gray, *Gen. B.* i. p. 189; *id. Hand-l. B.* i. p. 219, no. 3136.

Pseudogerygone magnirostris, Sharpe, *Notes Leyd. Mus.* i. no. 9, p. 29.

Adult. All the upper surface brown; margins of the primaries slightly tinged with olive; tail-feathers crossed near the extremity by an indistinct broad band of brownish black; all the under surface white, tinged with brownish buff; irides light brown; bill olive-brown, the base of the lower mandible pearl-white; feet greenish grey. Total length $3\frac{3}{4}$ inches, bill $1\frac{9}{16}$, wing $2\frac{1}{4}$, tail $1\frac{1}{2}$, tarsus $\frac{5}{8}$ (*Gould*).

Hab. Port Essington and Port Darwin in North-western Australia; Rockingham Bay in Queensland.

9. *Pseudogerygone flavilateralis*.

Acanthiza flavolateralis, Gray, *P. Z. S.* 1859, p. 161; *id. Cat. B. Trop. Isl. Pacific Ocean*, p. 15; *id. Hand-l. B.* i. p. 219, no. 3119; *Marie, Actes Linn. Soc. Bordeaux*, xxvii. p. 327.

Gerygone flavolateralis, Layard, *Ibis*, 1877, p. 357; *id. Ibis*, 1878, p. 254.

Pseudogerygone flavilateralis, Sharpe, *Notes Leyd. Mus.* i. no. 9, p. 29.

Adult (type of species). General colour above olive, the head and neck ashy, extending onto the mantle; the rump a little more yellow than the back; wing-coverts olive, slightly shaded with ashy; greater series and primary-coverts dark brown, the former broadly, the latter narrowly edged with pale olive-yellow; quills dark brown, narrowly margined with olive-yellow; tail-feathers light brown, edged with olive, all but the centre feathers with a large white spot at the end of the inner web, increasing in extent towards the outermost, where it forms a subterminal bar across the feather; all the feathers with a broad subterminal shade of black; lores greyish white, forming also a narrow line above the eye; in front of

Hab. New Caledonia.

Gerygone laevigaster, Gould, P. Z. S. 1842, p. 133; id. B. Austr.

fol. ii. pl. 101; *Bp. Consp.* i. p. 293; *Reichenb. Vög. Neuhol.* pp. 220, 288; *Finsch, Neu-Guinea*, p. 166; *Gould, Handb. B. Austr.* i. p. 270; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 183.

Acanthiza lævigaster, *Gray, Gen. B.* i. p. 189; *id. Hand-l. B.* i. p. 219, no. 3137.

Gerygone simplex, *Masters*, Pr. Linn. Soc. N. S. Wales*, i. p. 52 (*nec Cub.*); *Ramsay, op. cit.* ii. p. 183.

Pseudogerygone lævigaster, *Sharpe, Notes Leyd. Mus.* i. no. 9, p. 29.

Adult (Cape York, *J. Cockerell*). Above light brown, a little more fulvescent brown on the lower back and rump; tail-coverts brown, with lighter brown margins; two centre tail-feathers ashy brown, with a subterminal shade of darker brown, the rest of the feathers ashy brown, with a very broad antesubterminal band of black, and having a large white spot at the top of the inner web; least and median wing-coverts like the back, the greater series, primary-coverts, and quills brown, with narrow whitish-brown or fulvescent edges; lores white, extending backwards and forming a complete eyebrow; eyelid above and below white, behind and before brown; in front of the eye a spot of dusky brown; sides of face pale ashy brown; throat and under surface of body pure white; thighs brown; sides of breast and flanks ashy brown; under wing-coverts and axillaries pure white; quills brown below, white along the edges of the inner web; "bill olive-brown, base of lower mandible ashy grey†; feet dark greenish grey; iris light reddish brown" (*Gould*). Total length 4.2 inches, culmen 0.4, wing 2.15, tail 1.65, tarsus 0.7. (*Mus. F. DuCune* *Godman*.)

Hab. Port Essington, Port Darwin, Gulf of Carpentaria in Northern Australia.

12. *Pseudogerygone albifrontata*.

Gerygone albofrontata, *Gray, Voy. Erebus & Terror, Birds*, p. 5, pl. 4. fig. 2; *Bp. Consp.* i. p. 293; *Gray, Ibis*, 1862, p. 221; *Buller, B. New Zealand*, p. 111; *Finsch, J. f. O.* 1874, p. 188; *Sharpe, Voy. Erebus & Terror, Birds, App.* p. 26.

Acanthiza albofrontata, *Gray, Gen. B.* i. p. 189; *id. Hand-l. B.* i. p. 219, no. 3130.

Gerygone frontata, *Potts, Tr. N. Z. Inst.* vi. p. 144 (*lapsu*).

Pseudogerygone albifrontata, *Sharpe, Notes Leyd. Mus.* i. no. 9, p. 29.

Adult (type of species). General colour above brown, inclining to ochraceous brown on the rump and to ochreous fawn-colour on the upper tail-coverts, which contrast with the rest of the upper surface; tail-feathers brown, all of them fawn-colour near the base of the outer web, and having a broad shade of black near the end, with a subterminal spot or bar near the tip of the inner web; least and median wing-coverts like the back, the greater coverts and quills dark brown, edged with yellowish brown, lighter on the quills; base of forehead, feathers above and round the eye, as well as a tolerably

* From the description given by Mr. Masters, I consider his *Gerygone simplex* to be the same as *G. lævigaster* of Gould. Should it eventually be distinguished from the latter species it cannot bear the name of *simplex*, already appropriated by Cabanis, and I would propose that of *Pseudogerygone mastersi* for it.

† Not so represented in the plate.

distinct eyebrow, greyish white; eye-ring purer white; in front of the eye a dusky spot; ear-coverts greyish white, the upper edge brown; under surface of body dull white, with a slight shade of brown, the sides of the body and flanks yellow; under tail-coverts tawny buff; thighs dark brown; under wing-coverts and axillaries white; quills dark brown, whitish brown along the edge of the inner web; "bill and feet blackish brown; iris blood-red" (*Buller*). Total length 5.5 inches, culmen 0.55, wing 2.75, tail 2.2, tarsus 0.95.

Female. Similar to the male, but slightly smaller, and without the yellow tinge on the underparts (*Buller*).

Hab. Chatham Islands.

a. Ad. sk.

Chatham Islands.

New Zealand Co. [P.]
(Type of species.)

13. *Pseudogerygone rufescens*.

Gerygone? *rufescens*, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 961.

Pseudogerygone rufescens, *Sharpe, Notes Leyden Mus.* i. no. 9, p. 29.

Adult male (Atam, June 21, 1875, *Baccari*; type of species). General colour above dark umber-brown, with a slight olive tinge, especially distinct on the wing-coverts; greater coverts and quills dark brown, with pale olive-brown edges; rump and upper tail-coverts rather more rufous-brown than the back; tail-feathers dull brown, edged with rufous-olive and crossed near the end with a distinct shade of black, mostly confined to the inner web, the outermost feathers with a pale subterminal spot of rufous-buff, very indistinct; lores olivaceous buff; eye-ring pale rufous-brown; sides of face and under surface of body pale rufous-brown, inclining to fulvous on the lower abdomen; under wing-coverts and axillaries rufous-buff; quills dark brown below, whitish brown along the edge of the inner web. Total length 3.8 inches, culmen 0.45, wing 2.1, tail 1.6, tarsus 0.75. (*Mus. Civic. Genov.*)

Adult female. Similar to the male. Total length 3.7 inches, culmen 0.45, wing 2.05, tail 1.5, tarsus 0.7. (*Mus. Civic. Genov.*)

Hab. Atam, N.W. New Guinea.

. 14. *Pseudogerygone rubra*.

Pseudogerygone rubra, *Sharpe, Notes Leyden Mus.* i. no. 9, p. 29.

Adult male (Tjohonda, Arfak Mountains, Feb. 17th, 1876, *Bruijn*). General colour above dark crimson, a little duller on the head and neck; wings dull blackish, with a small white bar running obliquely across the wing; tail-feathers black, with white tips to the outer feathers, increasing in extent on the outermost, where the white extends a little way up the outer web also; forehead dusky brown, the loreal plumes dull white with black tips; across the base of the forehead a small white line; ear-coverts and eyelid sooty blackish, the latter white in front and behind only; cheeks dull white with dusky bases; under surface of body light ashy grey, becoming white on the abdomen and under tail-coverts

thighs blackish, washed with dark crimson; under wing-coverts and axillaries white; quills ashy below, with an indistinct white bar across the basal portion of the quills. Total length 4.1 inches, culmen 0.5, wing 2.35, tail 2.1, tarsus 0.6. (*Mus. Lugd.*)

Hab. Arfak Mountains, N.W. New Guinea.

15. *Pseudogerygone chrysogastra*.

Gerygone chrysogaster, Gray, *P. Z. S.* 1858, p. 174; *id. Cat. B. New Guinea*, p. 25; *id. P. Z. S.* 1861, p. 434; *Finsch, Neu-Guinea*, p. 166; *Salvad. & D'Albert. Ann. Mus. Civic. Genov.* vii. p. 820; *Salvad. t. c.* p. 956, ix. p. 26; *Sharpe, Journ. Linn. Soc.* xiii. p. 495.

Acanthiza chlorogaster, Gray, *Hand-l. B. i.* p. 219, no. 3131.

Pseudogerygone chrysogastra, Sharpe, *Notes Leyd. Mus.* i. no. 9, p. 29.

Adult male. General colour olive-brown, the upper tail-coverts more rusty brown; wing-coverts like the back, the greater series darker brown, narrowly edged with olive-brown like the back; quills dark brown, externally edged with olive; tail dark brown, edged with rusty brown like the upper tail-coverts; lores and eyelid dull white; ear-coverts and sides of face light ashy brown; cheeks, throat, and breast white, the remainder of the under surface sulphur-yellow, the thighs browner; under wing-coverts pale yellow, with white bases; "bill and feet dusky" (*Wallace*); iris black (*D'Albertis*). Total length 4.7 inches, culmen 0.45, wing 2.2, tail 1.8, tarsus 0.65.

Adult female. Similar to the male in colour. "Bill black, feet pale reddish white" (*Wallace*). Total length 4.2 inches, culmen 0.45, wing 2, tail 1.7, tarsus 0.65.

Hab. Aru Islands and South-eastern New Guinea; island of Jobi, in the Bay of Geelvink.

| | | |
|-------------------|---------------------------------------|---|
| a, b. ♂ ♀ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.] (Types of species.) |
| c. ♂ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. |
| d. Ad. sk. | Aru Islands (<i>Von Rosenberg</i>). | Leiden Museum [P.]. |

16. *Pseudogerygone arfakiana*.

Gerygone? *arfakiana*, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 960, x. p. 148.

Pseudogerygone arfakiana, Sharpe, *Notes Leyd. Mus.* i. no. 9, p. 29.

Adult male (Arfak, May 11, 1875, *Beccari*; type of species). Above dusky olive-green, the lower back and rump more olive-brown, the upper tail-coverts rufous-brown; tail-feathers brown, with rufous-olive margins, and having an indistinct shade of darker brown a little before their ends; wing-coverts like the back; primary-coverts dusky brown, edged with olive; quills dusky brown, margined with yellowish olive; lores and a ring of feathers round the eye dull whitish; sides of face dull white, the ear-coverts dusky ash; throat and under surface of body dull whitish, washed with fulvous on the chest, lower flanks, and under tail-coverts; sides of neck and sides of breast dusky ash-grey washed with olive; thighs

olive-brown; under wing-coverts white, washed with olive-yellow; quills dusky brown, edged with white along the inner web. Total length 3·75 inches, culmen 0·45, wing 1·95, tail 1·5, tarsus 0·7. (*Mus. Civic. Genov.*)

Hab. Arfak Mountains, N.W. New Guinea.

17. *Pseudogerygone notata*.

Gerygone neglecta?, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 957 (*nec Wall.*).

Gerygone notata, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 344.

Pseudogerygone notata, *Sharpe, Notes Leyden Mus.* i. no. 9, p. 29.

Adult. General colour above dark greenish olive, rather more rufescent on the upper tail-coverts; least wing-coverts like the back; greater and median wing-coverts dark brown, edged and tipped with yellow; quills dark brown, externally edged with the same olive as the back; tail-feathers brown, with olive margins; lores buffy whitish; ear-coverts olive, with lighter shaft-streaks; throat and breast white, slightly tinged with yellow; the abdomen, thighs, and under tail-coverts olive-yellow; under wing-coverts white, as also the axillaries, washed with yellow, especially on the edge of the wing; quills dusky brown below, buffy white along the inner edge of the quills. Total length 4·2 inches, culmen 0·45, wing 1·95, tail 1·55, tarsus 0·6.

Hab. Island of Mysol and N.W. New Guinea.

a. Ad. sk. Mysol. A. R. Wallace, Esq. [C.].

b. ♂ ad. sk. Saïlolo, Salwatti, Feb. 25, Leiden Museum [P.].
1865 (*Dr. Bernstein*).

18. *Pseudogerygone neglecta*.

Gerygone neglecta, *Wallace, P. Z. S.* 1865, p. 475.

Acanthiza neglecta, *Gray, Hand-l. B.* i. p. 220, no. 3144.

Pseudogerygone neglecta, *Sharpe, Notes Leyden Mus.* i. no. 9, p. 29.

Adult (type of species). General colour above dull olive, the upper tail-coverts rather more rufescent olive; wing-coverts dusky brown, with olive margins like the back; quills dull brown, with more yellow margins to the feathers; tail-feathers brown, edged with dusky olive; feathers in front of and round the eye dull yellow; ear-coverts dusky olive-yellowish; throat dull white, as also the centre of the breast, washed with yellow, the flanks olive-greenish, the lower abdomen and under tail-coverts brighter yellow; under wing-coverts and axillaries white, with a slight wash of yellow; quills dark brown below, edged with lighter brown along the inner web. Total length 4·4 inches, culmen 0·45, wing 2·2, tail 1·7, tarsus 0·6.

Hab. Island of Waigiou.

a. Ad. sk. Waigiou. A. R. Wallace, Esq. [C.].

b. ♀ ad. sk. Waigiou. (Type of species.)
A. R. Wallace, Esq. [C.].

19. *Pseudogerygone trochiloides*.

Sericornis? *trochiloides*, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 961.

Pseudogerygone trochiloides, *Sharpe, Notes Leyd. Mus.* i. no. 9, p. 29.

Adult female (Kordo, Misori, May 1875, *Beccari*; type of species). General colour above dull olive-green, the head a little duller than the back; wing-coverts like the back, the median and greater series a little more yellow, especially at the tips, forming an indistinct double bar across the wing; primary-coverts and quills dusky brown, edged with olive-yellow; tail-feathers dusky blackish, edged with olive-green like the back; lores mottled with dusky grey, with whitish bases; an indistinct eye-ring of yellow; ear-coverts dull greyish, washed with olive, and with yellowish narrow shaft-lines; cheeks and throat yellow; remainder of under surface olive-greenish, rather more grey on the sides of the body, where the bases of the feathers are grey, the centre of the body rather brighter yellow, the feathers being edged with the latter colour; under wing-coverts and axillaries white, washed with yellow, especially near the edge of the wing; quills dusky brown below, whitish along the inner web; bill blackish, the lower mandible yellowish white; feet yellowish. Total length 3·7 inches, culmen 0·5, wing 2·1, tail 1·4, tarsus 0·8. (*Mus. Civic. Genov.*)

Young male (Kordo, May 7, 1875, *Beccari*). Similar to the adult, but rather more dull in colour and rather paler yellow on the under surface. Total length 3·7 inches, culmen 0·45, wing 2·1, tail 1·45, tarsus 0·8. (*Mus. Civic. Genov.*)

Obs. This species, as well as *P. poliocephala* and *P. maforensis*, is rather aberrant in form, having an enormous bill, strong bristles, long wings, and long silky flank-feathers.

Hab. Island of Misori, in the Bay of Geelvink.

20. *Pseudogerygone maforensis*.

Gerygone maforensis, *Meyer, Sitz. k. Akad. Wien*, lxx. p. 120.

Pseudogerygone maforensis, *Sharpe, Notes Leyd. Mus.* i. no. 9, p. 29.

Adult female (Mafoor, March 1873, *Dr. A. B. Meyer*; type of species). General colour above dark olive-green, the head greyer, and slightly washed with olive; wing-coverts brown, edged with olive, the greater series tipped with yellow, forming a bar across the wing; quills dusky brown, edged with olive-yellow, a little brighter on the primaries; tail blackish brown, narrowly and indistinctly edged with olive; lores dusky grey; cheeks and ear-coverts lighter ashy, the latter slightly washed with olive and narrowly streaked with dull whitish shaft-lines; under surface of body pale greyish on the throat and breast, with yellow streaks, the feathers being edged with olive-yellow; the abdomen whiter, washed with yellow, the sides of the body ashy grey washed with olive; under wing-coverts white, the edge of the wing yellowish; quills dusky brown below, whitish along the inner web. Total length 3·8 inches, culmen 0·45, wing 2, tail 1·3, tarsus 0·7. (*Mus. Dresden.*)

Hab. Island of Mafoor, in the Bay of Geelvink.

21. *Pseudogerygone chloronota*.

Gerygone chloronotus, Gould, *P. Z. S.* 1842, p. 133; *id. B. Austr.* fol. ii. pl. 182; *Bp. Consp.* i. p. 293; *Reichenb. Vög. Neuhol.* pp. 71, 288; *Finsch, Neu-Guinea*, p. 166; *Gould, Handb. B. Austr.* i. p. 271; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 170.

Acanthiza chloronotus, Gray, *Gen. B.* i. p. 189; *id. Hand-l. B.* i. p. 219, no. 3138.

Pseudogerygone chloronota, Sharpe, *Notes Leyd. Mus.* i. no. 9, p. 29.

Head and back of the neck brownish grey; back, wing-coverts, rump, upper tail-coverts, margins of the primaries, and the margins of the basal half of the tail-feathers bright olive-green; primaries and tail-feathers brown, the latter becoming much darker towards the extremity; under surface white; sides and vent olive-yellow; irides wood-brown; upper mandible greenish grey; lower mandible white; feet blackish grey. Total length $3\frac{1}{2}$ inches, bill $\frac{9}{16}$, wing $2\frac{1}{4}$, tail $1\frac{3}{4}$, tarsus $\frac{5}{8}$. (*Gould.*)

Hab. Northern Australia.

22. *Pseudogerygone poliocephala*.

Gerygone? *poliocephala*, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 960.

Pseudogerygone poliocephala, Sharpe, *Notes Leyden Mus.* i. no. 9, p. 29.

Adult female (Wamai, Arfak Mountains, Feb. 18, 1876, *Bruijn*).

General colour above olive-green, the wing-coverts coloured like the back; greater coverts and quills dark brown, edged with brighter olive-yellow than the back; upper tail-coverts also a little brighter; tail-feathers dusky brown, margined with olive-yellow; crown of head dull ashy brown, washed with olive, the head being a little darker than the back; from the nostrils a distinct white eyebrow, extending to the end of the ear-coverts; eyelid, sides of face, and throat ashy whitish, with a dusky shade along the upper edge of the ear-coverts; remainder of under surface of body bright yellow, somewhat washed with olive on the sides; under wing-coverts whitish, washed with yellow; quills dark brown below, edged with white along the inner web. Total length 4 inches, culmen 0.45, wing 2.25, tail 1.55, tarsus 0.75. (*Mus. Lugd.*)

A younger specimen, marked a male, has the throat washed with yellow and the sides of the face more dusky. Total length 3.6 inches, culmen 0.45, wing 2.15, tail 1.6, tarsus 0.75. (*Mus. Lugd.*)

Obs. The type specimen from the Arfak Mountains, May 3, 1875 (*Bruijn*), kindly lent by Count Salvadori, agrees exactly with the description above given, and measures as follows:—Total length 4 inches, culmen 0.4, wing 2.2, tail 1.6, tarsus 0.75.

Hab. Arfak Mountains, N.W. New Guinea.

23. *Pseudogerygone personata*.

Gerygone personata, Gould, *P. Z. S.* 1866, p. 217; *id. B. Austr.* fol. *Suppl.* pl. 14; *Ramsay, Proc. Linn. Soc. N. S. W.* ii. p. 183.

Acanthiza personata, Gray, *Hand-l. B.* i. p. 219, no. 3128.

Gerygone flavida, Ramsay, *Proc. Linn. Soc. N. S. W.* ii. pp. 53, 183 (♀).

Pseudogerygone personata, Sharpe, *Notes Leyden Mus.* i. no. 9, p. 28.

Adult male (type of species). General colour above olive greenish, the upper tail-coverts browner; wing-coverts like the back, the greater series and the quills with narrow and yellower edges; tail-feathers light brown, with obscure olive margins, the outer feathers with paler tips to the inner webs; forehead, feathers in front of the eye, and ear-coverts dull brown, a loreal spot and broad moustache white; throat brown; remainder of under surface sulphur-yellow; the under wing-coverts paler white, washed with the yellow of the breast. Total length 3·7 inches, culmen 0·5, wing 2·2, tail 1·7, tarsus 0·7.

Adult female. Similar to the male on the upper surface of the body, the quills edged with slightly brighter yellow: tail-feathers brown, edged with olive-greenish, and having an indistinct blackish shade before the end of the tail; a large white loreal spot; ear-coverts brown, tinged with olive; eye-ring ashy whitish; cheeks and chin white; rest of under surface bright yellow from the upper throat downwards; thighs brown; sides of upper breast ashy brown; under wing-coverts pale yellow; quills dusky brown, whitish along the inner web. Total length 3·7 inches, culmen 0·45, wing 1·95, tail 1·5, tarsus 0·65. (*Mus. F. DuCane Godman.*)

Hab. N.E. Australia.

a. ♂ ad. sk. Cape York. John Gould, Esq. (Type of species.)

24. *Pseudogerygone palpebrosa*. (Plate VI.)

Gerygone palpebrosa, Wall. *P. Z. S.* 1865, p. 475; *Salvad. Ann. Mus. Civic. Genov.* xii. p. 344.

Acanthiza palpebrosa, Gray, *Hand-l. B.* i. p. 220, no. 3143.

Gerygone melanothorax, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 956.

Pseudogerygone palpebrosa, Sharpe, *Notes Leyden Mus.* i. no. 9, p. 28.

Adult male (Profi, Mount Arfak, July 9, 1875, Beccari; type of *G. melanothorax*). General colour above dark green, duller on the head and neck; wing-coverts dusky brown, narrowly edged with olive-yellow; tail-feathers dark brown, margined with olive, and almost imperceptibly blacker towards their ends, with the faintest indication of a white spot near the tips of the inner web of the outermost; forehead, feathers over the eye, ear-coverts, sides of face, and entire throat and fore neck black; a distinct loreal spot of white; cheeks with a broad spot of white; remainder of under surface of body bright sulphur-yellow, slightly washed with green on the sides of the body, the black feathers on the lower fore neck tipped with green like the adjoining sides of the breast; thighs yellow; under wing-coverts and axillaries white, strongly washed with yellow; quills dusky brown below, whitish along the edge of the inner web.

Total length 3·8 inches, culmen 0·45, wing 2·15, tail 1·45, tarsus 0·6.
(*Mus. Civic. Genov.*)

Adult female. Rather more olive-yellow, and not of such a deep green above as the male; quills and tail-feathers dusky brown, with olive-yellow margins, the latter with a slight shade of darker or blackish brown towards their ends; lores dusky white; eye-ring yellowish; ear-coverts ashy grey; cheeks and throat dull whitish, the lower part of the latter washed with yellow; rest of under surface of body bright yellow, as also the under wing-coverts and axillaries; quills dull brown below, whitish along the edge of the inner web. Total length 3·8 inches, culmen 0·45, wing 1·95, tail 1·4, tarsus 0·6.

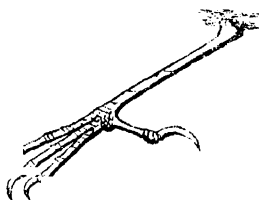
Obs. The type of the species is a young male, resembling the female, but already showing traces of the adult plumage in the shape of black feathers on the throat and a ring of black plumes round the eye.

Hab. Aru Islands and N.W. New Guinea.

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|--------------------------|---------------------------------------|--------------------------|
| <i>a.</i> ♂ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.] |
| | | (Type of species.) |
| <i>b, c.</i> ♂ ♀ ad. sk. | Aru Islands (<i>Von Rosenberg</i>). | Leiden Museum [P.] |

19. CHASIEMPIS.

Chasiempis, *Cabanis*, *Arch. für Naturg.* 1847, p. 207. Type.
C. *sandvicensis*.



Foot of *Chasiempis sandvicensis*.

Range. Confined to the Sandwich Islands and Rarotonga in the Pacific.

Key to the Species.

Males.

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|---|-------------------------------|
| <i>a.</i> Above rufous-brown; upper tail-coverts white; forehead and eyebrow rufous. | <i>sandvicensis</i> , p. 232. |
| <i>b.</i> Above dark ashy grey; upper tail-coverts black; forehead and eyebrow dull white | <i>dimidiata</i> , p. 232. |

Females.

- | | |
|--|-------------------------------|
| <i>a.</i> Rufous; tail brown, with white tips to the inner webs | <i>sandvicensis</i> , p. 232. |
| <i>b.</i> Rufous; tail pale rufous, with a broad band of dark brown at the tip | <i>dimidiata</i> , p. 232. |

1. *Chasiempis sandwichensis*.

Sandwich Flycatcher, *Lath. Gen. Syn.* ii. pt. 1, p. 344, no. 41.

Spotted-winged Flycatcher, *Lath. t. c.* p. 345, no. 43.

Muscicapa sandwichensis, *Gm. S. N. i.* p. 945 (*ex Lath.* no. 41); *Gray, Gen. B. i.* p. 263.

Muscicapa maculata, *Gm. t. c. i.* p. 945 (*ex Lath.* no. 43); *Gray, Gen. B. i.* p. 263; *Dole, Pr. Bost. Soc. N. H.* xii. p. 294.

Chasiempis sandwichensis, *Cabanis, Arch. f. Naturg.* 1847, p. 208; *Hartl. Arch. f. Naturg.* 1852, p. 133; *Scoter, Ibis*, 1871, p. 360; *id. P. Z. S.* 1878, p. 346.

Eopsaltria (*Chasiempis*) *sandwichensis*, *Gray, Cat. B. Trop. Isl. Pacific Ocean*, p. 21.

Eopsaltria (*Chasiempis*) *maculata*, *Gray, t. c.* p. 22.

Chnipoegus, sp. 1238, *Scoter, Cat. Am. B.* p. 203, *et P. Z. S.* 1873, p. 555.

Eopsaltria sandwichensis, *Dole, Pr. Bost. Soc. N. H.* xii. p. 300; *Gray, Hand-l. B. i.* p. 390, no. 5924.

Eopsaltria maculata, *Gray, t. c.* p. 390, no. 5925.

Adult (Hilo, Owhyhee: *J. Murray*, Voy. of H.M.S. 'Challenger'). General colour above dark rufous-brown, the forehead and feathers over the eye chestnut, feathers below the eye blackish washed with chestnut; wing-coverts black, tipped with white spots; primary-coverts black, externally narrowly edged with white; quills blackish brown, externally edged with rufous, inclining to dull whitish towards the tips, the inner secondaries tipped with white; upper tail-coverts white; tail blackish brown, all but the four centre feathers tipped with white, more broadly towards the outermost; cheeks and throat white, with black bases to the feathers, producing a slightly mottled appearance; rest of under surface of body chestnut, washed with brown on the fore neck; the breast-feathers mottled with white, some of them being white on the outer webs, chestnut on the inner; abdomen and under tail-coverts white; thighs white, with black bases; under wing-coverts white, black at the base; quills dark ashy below, white along the edge of the inner web. Total length 5.1 inches, culmen 0.5, wing 2.7, tail 2.15, tarsus 0.85.

Hub. Sandwich Islands.

a. ♀ ad. sk. Sandwich Islands. P. L. Slater, Esq. [P.].

2. *Chasiempis dimidiata*.

Monarches dimidiata, *Hartl. & Finsch, P. Z. S.* 1871, p. 28.

Monarcha dimidiata, *Salvin, Cat. Strickl. Coll.* p. 136.

Adult male. General colour above dark ashy grey, a little lighter on the head, with a hoary shade on the crown; feathers of the upper surface with more or less distinct shaft-lines of white; least wing-coverts light ashy brown, the remainder dark brown with ashy-grey edgings, the median series with obscure whitish spots at the end; primary-coverts ashy brown, edged with white at the tips; quills dark brown, with obscure greyish margins; tail-feathers black, with a spot of white near the base of the inner webs of the two centre feathers; forehead hoary white, as well as the lores and an indistinct eyebrow; ear-coverts ashy brown, shaded with hoary

whitish; cheeks and under surface of body dull white; under wing-coverts white, with dusky blackish bases; quills ashy brown below, edged with white along the inner web. Total length 6.1 inches, culmen 0.6, wing 3.2, tail 2.45, tarsus 0.95. (*Mus. Cantabr.*)

Adult female. General colour above rusty cinnamon, somewhat mottled on the back with a subterminal shade of paler fulvous; rump-feathers black, tipped with chestnut; upper tail-coverts dark cinnamon; tail-feathers creamy white, with a band of dusky brown at the tip of the feathers; wing-coverts like the back, the median series with dull brown bases broadly edged with the colour of the back; greater coverts and primary-coverts dark brown, edged with cinnamon-buff; quills dark brown, margined with rufous, the primaries broadly edged with whitish buff near the base; feathers in front of the eye buffy whitish; sides of face and sides of neck, throat, and breast pale cinnamon-buff, lighter on the latter; remainder of under surface buffy white; the flanks, thighs, and under tail-coverts cinnamon, as also the under wing-coverts, the latter with dusky bases; quills ashy brown below, fulvous along the edge of the inner web. Total length 7 inches, culmen 0.75, wing 3, tail 2.5, tarsus 0.95. (*Mus. Cantabr.*)

Hab. Rarotonga Island, Pacific Ocean.

20. MUSCYLVA.

Type.

Muscylva, *Hombr. et Jacq. Voy. Pôle Sud*, pl. xi. fig. 2
(1842-53, descr. nullâ, nec *Muscysylvia*, *Hodgs.* 1844)... *M. lessoni*.



Bill of *Muscylva lessoni*.

Range. Confined to the Fiji group of islands.

1. *Muscylva lessoni*.

Muscylva de Lesson, *Hombr. et Jacq. Voy. Pôle Sud*, *Atlas*, pl. 11. fig. 2.

Muscylva lessoni, *Jacq. et Pucher. Voy. Pôle Sud*, *Texte*, iii. p. 75.

Rhipidura lessoni, *Gray, Gen. B.* i. p. 258; *id. B. Trop. Isl. Pacific Ocean*, p. 17; *id. Hand-l. B.* i. p. 332, no. 4992.

Monarcha cinerea, *Peale, U.S. Expl. Exp., Birds*, p. 101, pl. 27. fig. 2; *Hartl. in Wiegman. Arch.* 1852, p. 101.

Leucocerca lessoni, *Bp. Consp.* i. p. 324, no. 6; *Cass. U.S. Expl. Exp.* p. 165; *Hartl. Ibis*, 1864, p. 232.

Monarcha lessoni, *Finsch & Hartl. Faun. Centralpolyn.* p. 88, Taf. 7. fig. 5; *Layard, P. Z. S.* 1876. p. 434; *id. Ibis*, 1876, pp. 144, 392.

Adult female. General colour above grey, the upper tail-coverts black with broad white edgings; tail-feathers black, tipped with white, gradually increasing in extent towards the outermost feather;

wing-coverts like the back, the greater series externally edged with hoary white; quills brown, edged with grey, lighter on the primaries, the inner secondaries narrowly tipped with white; lores white, extending over the fore part of the eye; eyelid white; ear-coverts and sides of face grey; under surface of body whitish, the breast and sides of body grey; thighs blackish with white edgings; under wing-coverts white; quills brown below, edged with white along the inner web; "bill lead-colour, the edges paler; feet blackish; iris brown" (*Peale, Graciffe*). Total length 5 inches, culmen 0·55, wing 2·8, tail 2·15, tarsus 0·75.

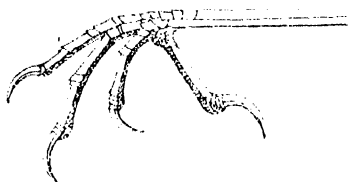
Adult male. Similar to the female. Total length 5 inches, culmen 0·55, wing 2·5, tail 2·4, tarsus 0·7.

Hab. Fiji Islands.

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| <i>a, b.</i> ♂ ♀ ad. sk. | N'Dreketti, Fiji (<i>E. L. Layard</i>). | Rev. S. J. Whitmee. |
| <i>c.</i> ♀ ad. sk. | M'Bau Island, Fiji, Aug. 1865. | J. Brenchley, Esq. [P.]. |
| <i>d.</i> ♀ ad. sk. | Levuka, Ovalau, July 1865. | J. Brenchley, Esq. [P.]. |

21. MIRO.

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| Miro, <i>Lesson, Traité d'Orn.</i> p. 389 (1831) | Type. |
| Myioscopus, <i>Reichenb. Syst. Av.</i> Taf. lxxvii. fig. 12 (1850) | <i>M. australis</i> . |
| | <i>M. australis</i> . |



Leg of *Miro albifrons*.

Range. Confined to New Zealand and the Chatham Islands.

Key to the Species.

- a.* With a white frontal spot; centre of abdomen white.
 - a'.* Larger; wing 3·95 inches, tarsus 1·5: throat dark ashy brown or blackish, with white shaft-lines; whitish breast-patch large *albifrons*, p. 235.
 - b'.* Smaller; wing 3·6 inches, tarsus 1·4: breast-patch small; throat hoary grey, the feathers edged with brown; breast ashy, with whitish shaft-lines *australis*, p. 235.
- b.* Entirely black above and below, with no white spot on the forehead and no white on the abdomen *traversi*, p. 236.

1. *Miro albifrons*.

- White-fronted Thrush, *Lath. Gen. Syn.* ii. pt. 1, p. 71.
Turdus albifrons, *Gm. Syst. Nat.* i. p. 822 (ex *Lath.*).
Miro albifrons, *Gray in Dieffenb. Trav.* ii. *App.* p. 190; *Bp. Consp.* i. p. 300; *Buller, B. N. Zeal.* p. 122; *Sharpe, Voy. Ereb. & Terror, Birds, App.* p. 25, pl. 6. fig. 2.
Petroica albifrons, *Gray, Voy. Ereb. & Terror, Birds*, p. 7, pl. 6. fig. 2; *id. Gen. B. i.* p. 83; *id. Ibis*, 1862, p. 223; *id. Hand-l. B. i.* p. 229, no. 3308; *Hutton, Cat. N.Z. Birds*, p. 12; *Finsch, J. f. O.* 1870, p. 321.
Turdus ochrotarsus, *Forster, Deser. Anim.* p. 82 (ex icon. *ined.* 148; Dusky Bay, March 28, 1773).
Muscicapa albifrons, *Ellman, Zool.* 1861, p. 7465.
Myioscopus albifrons, *Finsch, J. f. O.* 1872, p. 160, et 1874, p. 187.

Adult. General colour above sooty grey, the head browner, the feathers with greyish bases, on which portion of the plume the shaft is whitish; wing-coverts like the back, the greater series and quills browner, the primaries lighter brown on their edges; tail dusky brown; on the forehead a small spot of white; lores dull greyish with white shaft-lines; sides of face, throat, fore neck, and sides of body dull greyish brown, with white shaft-lines to the feathers; chest, centre of breast, and abdomen creamy white; thighs brown; axillaries dull greyish, as also the under wing-coverts, which have whitish edges; quills brown below, edged on the inner web with lighter brown, the secondaries white at base; "bill brownish black; palate and soft parts of the mouth yellow; tarsi, toes, and claws dark brown, the soles yellow; iris black" (*Buller*). Total length 7.5 inches, culmen 0.75, wing 3.95, tail 2.95, tarsus 1.5.

Female. Somewhat smaller than the male, and having the plumage of the upper parts tinged with brown; there is less yellow on the breast, and the grey of the underparts is lighter.

Hab. South Island, New Zealand.

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| a. Ad. sk. | Queen Charlotte Sound. | Capt. Stokes [P.]. |
| b. Ad. sk. | New Zealand. | Purchased. |
| c. Ad. sk. | New Zealand. | Antarctic Expedition [C.]. |

2. *Miro australis*.

- Turdus australis*, *Sparrm. Mus. Carls.* ii. pl. 69; *Sundev. Crit. om Sparrm.* p. 11.
Muscicapa longipes, *Garnot, Voy. Coquille, Zool.* i. p. 594, pl. 19. fig. 1.
Myiothera novæ zealandiæ, *Less. Man. d'Orn.* i. p. 248.
Miro longipes, *Lesson, Traité*, p. 389; *Buller, B. N. Zeal.* p. 119; *Sharpe, Voy. Ereb. & Terr. Birds, App.* p. 25.
Petroica australis, *Gray, Voy. Ereb. & Terr. Birds*, p. 7; *id. Gen. B.* i. p. 183; *Petz. Reis. Novara, Voy.* p. 65.
Miro australis, *Bp. Consp.* i. p. 299.
Myioscopus longipes, *Reichenb. Syst. Av.* pl. 67. fig. 2; *Finsch, J. f. O.* 1872, p. 112, et 1874, p. 186.
Petroica longipes, *Gray, Ibis*, 1862, p. 223; *id. Hand-l. B. i.* p. 229, no. 3309.

Adult male. Above dull ashy grey, the feathers with distinct whitish shafts, the feathers of the head with darker margins; least wing-coverts like the back, the median and greater series browner, as also the quills, which have ashy margins and are barred across the base of the inner web with white, represented on the outer web of the secondaries by an ashy-white spot; tail-feathers dusky brown, margined with ashy, lighter on the outer ones; at the base of the forehead a small spot of white: lores and feathers below the eye hoary whitish; sides of face, ear-coverts, and sides of neck dusky grey, with conspicuous white shaft-lines; throat, breast, and sides of body hoary grey, darker on the breast, with white shaft-lines; abdomen, vent, and under tail-coverts white; thighs dusky grey, with white edgings to the feathers; under wing-coverts white, with an obscure dusky spot near the edge of the wing: quills dark brown below, white at base of secondaries, with an obscure bar of dull white obliquely across the base of the primaries; "bill blackish brown; tarsi and toes pale brown, the soles dull yellow: iris black" (*Buller*). Total length 5·9 inches, culmen 0·7, wing 3·6, tail 2·6, tarsus 1·4.

Adult female. Similar to the male, but rather paler and lighter grey, and with more white on the breast. Total length 5·9 inches, wing 3·45, tail 2·45, tarsus 1·35.

Hab. North Island, New Zealand.

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| a. ♀ ad. sk. | New Zealand. | Antarctic Expedition [C.]. |
| b, c. ♂ ♀ ad. sk. | New Zealand (<i>F. Strange</i>). | Capt. Stokes [P.]. |
| d. Ad. sk. | New Zealand. | Purchased. |
| e. Ad. st. | New Zealand. | New-Zealand Co. [P.]. |

3. *Miro traversi*.

Miro traversi, *Buller, B. N. Zeal.* p. 123; *id. Ibis*, 1874, p. 116.

Petræca traversi, *Hutton, Ibis*, 1872, p. 245; *Travers, Tr. N. Zeal. Inst.* v. p. 216.

Myiomoira traversi, *Finsch, J. f. O.* 1874, p. 189; *Sharpe, Voy. Ereb. & Terror, Birds, App.* p. 27.

Adult. Entirely black above and below, the wings rather browner. Total length 6·1 inches, culmen 0·55, wing 3·25, tail 2·65, tarsus 1·25.

Hab. Chatham Islands.

| | | |
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| a. Ad. sk. | Chatham Islands. | W. Travers, Esq. [C.]. |
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22. LANIOTURDUS.

- Lanioturdus*, *Waterhouse, App. Alexander's Exp. Int.* Type.
Afr. p. 264 (1833) *L. torquatus*.
Hypsipus, Sundev. Av. Meth. Tent. p. 24 (1872) *L. torquatus*.

Bill of *Lanioturdus torquatus*.

Range. Confined to South-western Africa.

1. *Lanioturdus torquatus*.

- Lanioturdus torquatus*, *Waterhouse, App. Alex. Exp. Int. Afr. p. 264*;
Bocage, Journ. L'isb. ii. p. 42; *Sharpe, Cat. Afr. B. p. 43*; *id. Ibis*,
 1873, p. 170; *Bocage, Orn. Angola*, p. 197.
Platysteira albicauda, Strickl. Contr. Orn. 1852, p. 144.
Moquinus tandonus, Bp. C. R. xlii. p. 820.
Moquinus albicaudus, Bp. Rev. et Mag. de Zool. 1857, p. 52, pl. 5.
Platystira torquata, Gray, Hand-l. B. i. p. 330, no. 4949; *Gurney in*
Anderss. B. Dam. Id. p. 132.
Hypsipus torquatus, Sundev. Av. Meth. Tent. p. 24.

Adult male. Head black, including the lores and ear-coverts, the latter produced backwards along the sides of the neck; forehead and superciliary streak (not extending beyond the eye), cheeks, throat, sides of neck, and a large nuchal patch white; back dark grey, the rump mottled with white; upper tail-coverts black; tail pure white, the two central feathers longitudinally marked with black; upper wing-coverts black, the primary-coverts white at tip, as also the inner greater coverts, which form a conspicuous patch on the wing; quills black tipped with white, the secondaries more broadly, the primaries white at base of inner web, and the outer ones also white at base externally; across the breast a conspicuous band of black; centre of the body white, the sides of the breast and flanks grey; tibial plumes white varied with black; a tuft of axillary plumes under the wing white; under wing-coverts black, the lower ones tipped with white; edge of wing white; "bill almost black; feet very dark brown, with a whitish or lead-coloured tint about the joints; iris greenish yellow" (*Andersson*). Total length 5·5 inches, culmen 0·7, wing 3·3, tail 1·6, tarsus 1·2.

Hab. South-western Africa.

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| <i>a, b, ♂ ad. sk.</i> | Damara Land (<i>C. J. Andersson</i>). | <i>R. B. Sharpe, Esq.</i> |
| <i>c. Ad. sk.</i> | Otjimbingue (<i>C. J. A.</i>). | <i>R. B. Sharpe, Esq.</i> |
| <i>d. ♂ ad. sk.</i> | Biballa (<i>Anchieta</i>). | <i>R. B. Sharpe, Esq.</i> |

23. **METABOLUS.**

Metabolus, *Bp. C. R.* xxxviii. p. 650 (1854) Type.
M. rugensis.



Head and foot of *Metabolus rugensis*.

Range. Confined to the Caroline group of islands.

1. **Metabolus rugensis.**

Drymophile de Rouk, *Hombr. et Jacq. Voy. Pôle Sud, Atlas*, pl. 13.
Muscicapa rugensis, *Hombr. et Jacq. Ann. Sci. Nat.* (2) xvi. p. 312.
Monarcha rugensis, *Hartl. Arch. f. Naturg.* 1852, p. 133; *id. P. Z. S.*
 1867, p. 829; *Gray, Hand-l. B. i.* p. 321, no. 4809.
Colluricincla rugensis, *Jacq. et Pucher. Voy. Pôle Sud, Zool.* iii. p. 62.
Metabolus rugensis, *Bp. C. R.* xxxviii. p. 650.
Monarcha (Metabolus) rugensis, *Gray, Cat. B. Trop. Isl. Pacific Ocean*, p. 19.

Adult male. General colour above and below pure white, the quills with brown shafts and shaded with brown towards their tips; shafts of tail-feathers brown towards the bases; forehead, lores, feathers in front of the eye reaching above and below the anterior part of the latter, entire cheeks, and throat glossy steel-black; "bill black, with a white patch for half the length of the upper mandible; feet black; iris black; eye bordered with black in front and below" (*Hombron et Jacquinot*). Total length 7·8 inches, culmen 0·95, wing 4, tail 3·35, tarsus 1·05.

Adult female. Upper parts rufous, including the upper part of the head, which is a little clearer; throat black; thorax and a collar separating the hinder part of the head from the upper part of the back black, both spotted with rufous; abdomen mixed with rufous, black, and white; some of the flank-plumes white at the tips; the white colour, on the contrary, occupies nearly the whole of the under tail-coverts, which are tipped with black; wing by no means uniform in its coloration; primaries black externally, rufous on the outer web; the secondaries almost entirely black, bordered all round with rufous, the intermediate ones being pale blackish along each side of the shaft, rufous everywhere else; wing below similarly coloured, the shade being paler only; the under wing-coverts are black and rufous; upper wing-coverts rufous on the outer webs, black internally; tail-feathers rufous both above and below. (*Hombron et Jacquinot*.)

A male in immature or changing plumage, between the rufous

and the white dress, is also described and figured by MM. Hombron and Jacquinot.

Hab. Ruk or Truk Islands, Caroline group.

a, b. ♂ ad. sk.

[Caroline Islands.]

Purchased.

24. HETEROMYIAS.

Pœcilodryas, Ramsay, pt.



Head and foot of *Heteromyias cinereifrons*.

Range. North-eastern Australia.

1. *Heteromyias cinereifrons*.

Pœcilodryas? *cinereifrons*, Ramsay, *P. Z. S.* 1875, p. 588; *id. Proc. Linn. Soc. N. S. W.* ii. p. 182.

Adult (type of species). General colour above rusty brown, the head and nape dark ashy grey, shaded slightly with brown except on the forehead, which accordingly looks lighter grey; over the eye a broad streak of light French grey extending to the sides of the nape; feathers in front of the eye dusky greyish black; round the eye a ring of white feathers, blackish where it joins the loreal spot before and the ear-coverts behind; fore part of cheeks and feathers just below the eye white; ear-coverts rusty brown, blackish just under the eye; a chin-spot and feathers at base of lower mandible greyish black; throat and centre of breast and abdomen white; chest and fore neck, as well as the sides of the breast, light grey, the sides of the body and under tail-coverts tawny buff; thighs grey; under wing-coverts white, the axillaries tipped with tawny; greater series dark ashy, forming a patch on the under wing-coverts; quills ashy brown below, white at the base of both webs; upper wing-coverts ashy grey, the median and greater series dark brown slightly shaded with rusty brown; bastard wing externally ashy grey, internally dark brown; primary-coverts uniform dark brown, quills dark brown, paler towards the tips, edged externally with rusty brown, the inner secondaries entirely of the latter colour and resembling the back, all the quills but the latter white at base, forming a bar across the wing; upper tail-coverts rufous, the tail-feathers brown, washed on the edges with rusty brown, inclining to rufous near their bases, the outer feathers narrowly tipped with white on the inner web. Total length 6·3 inches, culmen 0·7, wing 3·85, tail 2·7, tarsus 1·2. (*Mus. Austr. Sydney.*)

Hab. Dalrymple's Gap, near Cardwell, Queensland, Feb. 1874. (*Ramsay.*)

25. **MONACHELLA.**

Type.

Monachella, *Salvad. Ann. Mus. Civic. Genov.* vi. p. 82
 (1874) *M. muelleriana*.

Bill and foot of *Monachella muelleriana*.

Range. Confined to New Guinea.

1. **Monachella muelleriana.**

Muscicapa muelleriana, *Schl. N. T. D.* iv. p. 40 (*nee* *Muscicapa muelleri*, *Blyth*).

Monachella saxicolina, *Salvad. Ann. Mus. Civic. Genov.* vi. p. 83;
Beccari, op. cit. vii. p. 709; *Salvad. op. cit.* x. p. 133.

Monachella muelleriana, *Salvad. Ann. Mus. Civic.* vi. p. 308, note.

Adult male. General colour above light French grey, paler on the lower back, the rump and upper tail-coverts white; wings and tail dark brown; crown of head and nape dark brown, as also the feathers above the eye and the upper edge of the eyelid, the brown narrowing on the forehead to the base of the bill; lores and feathers over the front of the eye pure white; between the eye and the base of the bill a triangular patch of blackish feathers; sides of face and ear-coverts, as well as entire under surface of body, creamy white; under wing-coverts dark brown; axillaries white, slightly shaded with brown; "bill and feet black" (*D'Alberty*). Total length 5·5 inches, culmen 0·6, wing 3·8, tail 2·4, tarsus 0·65.

Adult female. Similar to the male. Total length 5·3 inches, culmen 0·6, wing 3·55, tail 2·25, tarsus 0·65.

Hab. N.W. New Guinea.

a. ♂ ad. sk. Warfandu, Arfak Mountains, M. Laglaize [C.].
 April 2, 1876.

b. ♀ ad. sk. Karons, New Guinea, April M. Laglaize [C.].
 1877.

26. **PŒCILODRYAS.**

Type.

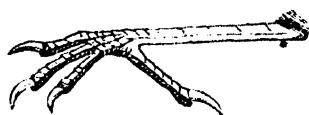
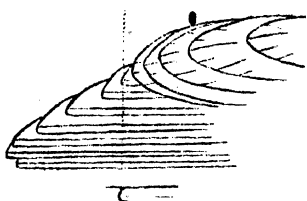
Pœcilodryas, *Gould, Handb. B. Austr.* i. p. 287 (1865) *P. cerviniventris*.

Leucophantes, *Selater, P. Z. S.* 1873, p. 691..... *P. brachyurus*.

Megalestes, *Salvad. Ann. Mus. Civic. Genov.* vii.

p. 760 (1875)..... *P. albonotatus*.

Range. Australia; New Guinea and adjacent islands.

Wing and foot of *Pœcilodryas hypoleuca*.*Key to the Species.*

- a. Abdomen white or greyish white, not yellow.
 - a'. Throat white.
 - a''. Flanks and under tail-coverts tawny buff *cerviniventris*, p. 242.
 - b'. Flanks and under tail-coverts white or brownish white.
 - a'''. Secondaries tipped with white; primaries edged with white; outer tail-feathers with a large spot of white at the tip *superciliosa*, p. 242.
 - b'''. Secondaries and primaries uniform: tail not tipped with white, but sometimes with a narrow edging to some of the outer feathers.
 - a¹. Tail white at base; back grey; chin without a black spot *cinerea*, p. 243.
 - b¹. Tail not white at base.
 - a². Back grey, the head blackish; a broad white eyebrow from the base of the bill to above the ear-coverts; under surface white, with the sides of the breast grey; chin-spot black *brachyura*, p. 243.
 - b². Back blackish as well as the head; a streak from the base of the bill only above the eye; under surface white, the sides of the breast black *hypoleuca*, p. 244.
 - b'. Throat black.
 - c''. Above velvety black, with a white band across the rump *bimaculata*, p. 244.
 - d''. Above bluish grey, with no bar on the rump *albinotata*, p. 245.
- b. Abdomen yellow like the breast.
 - c'. Lores forming a large white spot.
 - e''. Head dark grey, forehead blackish; ear-coverts blackish grey; no light ring round the eye; cheeks white; chin white *leucops*, p. 245.
 - f''. Head ashy grey, washed slightly with olive; no black forehead; ear-coverts pale grey, as also the cheeks; throat greyish white.
 - c'''. Lores and feathers round the eye white *capito*, p. 245.

- d'''*. Lores and feathers round the eye rufescent *nana*, p. 246.
d'. Lores yellow, as also the cheeks, throat, and entire under surface; head olive-yellow,
 • like the back *papuma*, p. 247.

1. *Pœcilodryas cerviniventris*.

Petroica ? *cerviniventris*, *Gould, P. Z. S.* 1857, p. 221; *id. B. Austr. Suppl.* pl. 15.

Pœcilodryas cerviniventris, *Gould, Handb. B. Austr.* i. p. 288; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 183; *Sharpe, Notes Leyden Mus.* i. no. 7, p. 25.

Petroica cerviniventris, *Gray, Hand-l. B.* i. p. 229, no. 3303.

Adult (type of species). General colour above smoky brown, darker and more chocolate-brown on the head; wings blackish brown, excepting the inner secondaries, which are lighter brown, more like the back; greater wing-coverts tipped with white; all the quills with a white bar near the base; the primaries with a narrow white mark about halfway from the end of the quills, the secondaries rather broadly tipped with white; tail brown, tipped with white, increasing in extent towards the outermost; sides of face blackish brown, including the feathers in front of the eye, those at base of lower mandible streaked with white; a broad streak of white skirting the sides of the crown from the nostrils to above the ear-coverts; throat white; fore neck and breast grey; abdomen whitish; thighs dusky black; sides of body and under tail-coverts light fawn-colour; under wing-coverts white, with a large patch of blackish brown near the edge of the wing; quills brown below, conspicuously barred with white near their bases; "iris brown" (*Elsey*). Total length 6 inches, culmen 0·6, wing 3·3, tail 2·65, tarsus 0·85.

Hab. North-western Australia.

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| <i>a.</i> Ad. sk. | N.W. Australia. | J. R. Elsey, Esq. [P.]. (Type of species.) |
| <i>b.</i> ♂ ad. sk. | N.W. Australia. | J. R. Elsey, Esq. [P.]. |
| <i>c.</i> ♂ ad. sk. | Depôt, Victoria River. | J. R. Elsey, Esq. [P.]. |

2. *Pœcilodryas superciliosa*.

Petroica superciliosa, *Gould, P. Z. S.* 1846, p. 106; *id. B. Austr.* fol. iii. pl. 9; *Bp. Consp.* i. p. 299; *Reichenb. Vög. Neuholl.* pp. 95, 289; *Finsch, Neu-Guinea*, p. 167; *Gray, Hand-l. B.* i. p. 229, no. 3304.

Pœcilodryas superciliosa, *Gould, Handb. B. Austr.* i. p. 289; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 183; *Sharpe, Notes Leyden Mus.* i. no. 7, p. 25.

Adult. General colour above brown, much darker on the head; the scapulars and lesser wing-coverts like the back, the median series dark brown, tipped with the same colour as the back; greater and primary-coverts blackish brown, the innermost greater coverts tipped with white; quills blackish brown, paler towards the tips,

and margined with white towards their ends, the inner secondaries tipped with white, all the quills with a distinct white base to both webs, forming a conspicuous bar across the wing; tail brown, tipped with white, the tips becoming gradually broader towards the outer feathers; a broad white eyebrow drawn from the base of the nostrils along each side of the crown; in front of the eye a blackish spot; ear-coverts dark brown, with indistinct whitish shaft-lines; feathers below the fore part of the eye white; cheeks and throat white, extending backwards onto the sides of the neck; remainder of under surface of body white, with an ashy shade on the chest and breast, the flanks somewhat washed with brown; under wing-coverts white, the greater series brown, forming a patch near the outer edge of the wing; quills dark brown, white at the base and along the inner web; "bill and feet black; iris reddish brown" (*Gould*). Total length 5·2 inches, culmen 0·55, wing 2·9, tail 2·45, tarsus 0·75.

Hab. N.E. Australia.

a. Ad. st.

N.E. Australia.

Julius Brenchley, Esq. [P.].

3. *Pœcilodryas cinerea*.

Pœcilodryas cinerea, *Sharpe, Notes Leyden Mus.* i. no. 7, p. 25.

Adult female (type of species). General colour above bluish grey, a little duller on the head; wings browner than the back, the least wing-coverts only grey like the latter, the secondaries with a small brown spot at the tip; upper tail-coverts black; the two centre tail-feathers black, the rest white for the basal half, black for the remainder; a line across the base of the forehead, ~~nores~~, and feathers round the eye dusky blackish, the ear-coverts also washed with dusky; cheeks and under surface of body white, washed with grey on the sides of the breast and flanks; under wing-coverts blackish, with a white spot near the outer edge of the wing; quills dusky blackish below, with a considerable amount of white near the base of some of the quills. Total length 5·6 inches, culmen 0·65, wing 3·35, tail 2·4, tarsus 0·8. (*Mus. Lugl.*)

Hab. "Noisaroo," Arfak Mountains, January 16th, 1876. (*Bruijn*.)

4. *Pœcilodryas brachyura*.

Leucophantes brachyurus, *Sclater, P. Z. S.* 1873, p. 691, pl. 53;

Salvad. Ann. Mus. Civic. Genov. vii. p. 919, x. p. 133.

Amaurodryas alboteniata, *Meyer, Sitz. b. Akad. Wien*, lxx. p. 498, lxx. p. 128.

Pœcilodryas brachyura, *Sharpe, Notes Leyden Mus.* i. no. 7, p. 25.

Adult male (*Ansus, Jobi: Beccari*). General colour above dark slate-colour, with lighter brown shaft-lines to some of the dorsal feathers; crown of head, sides of face, and ear-coverts black, with a broad white eyebrow from the base of the nostrils to the sides of the nape; cheeks and entire under surface of body pure white, the thighs with dusky bases; under wing-coverts black, except the outer

greater coverts, which are white; quills blackish below, narrowly buffy white along the inner web; wings above black, the quills browner, the edge of the wing white; inner primaries and outer secondaries white at base of both webs, showing a conspicuous bar on the wing; upper tail-coverts slightly tipped with whitish; tail-feathers dark brown, with narrow white terminal edgings to the outer feathers. Total length 5·4 inches, culmen 0·7, wing 3·25, tail 2·1, tarsus 0·85. (*Mus. Genov.*)

Hab. North-western New Guinea, and the island of Jobi, in the Bay of Geelvink.

a. ♀ ad. sk. Andei, N.W. New Guinea, Leyden Museum [P].
March 18, 1876 (*Bruijn*).

5. *Pœcilodryas hypoleuca*.

Petroica hypoleuca, *Gray*, *P. Z. S.* 1859, p. 155; *Finsch, Neu-Guinea*, p. 167; *Gray, Hand-l. B. i.* p. 228, no. 3293.

Pœcilodryas hypoleuca, *Sharpe, Notes Leyden Mus.* i. no. 7, p. 25.

Adult (type of species). General colour above blackish brown, the head rather blacker; wing-coverts like the back; quills black, browner towards their ends, with a distinct band of white at their base, caused by the bases of the inner primaries and outer secondaries being white; forehead, sides of crown, sides of face, hinder cheeks, and ear-coverts black; lores, eyelid, and fore part of cheeks white; under surface of body white, with a few black markings on the centre of the breast, the sides of the latter black, encroaching on the centre and forming a half-collar; under wing-coverts and axillaries white, with a patch of black on the greater series near the edge of the wing; quills blackish below, conspicuously white near the base of the inner webs. Total length 6 inches, culmen 0·55, wing 3·25, tail 2·45, tarsus 0·75.

Hab. New Guinea; Mysol; Waigiou.

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| a, b. ♂ ad. sk. | Dorey, New Guinea. | A. R. Wallace, Esq. [C.]. (Types of species.) |
| c. Ad. sk. | New Guinea. | A. R. Wallace, Esq. [C.]. |
| d. Ad. sk. | N.W. New Guinea. | M. Laglaize [C.]. |
| e. ♂ ad. sk. | Amberbaki, New Guinea, May 1877. | M. Laglaize [C.]. |
| f. ♂ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.]. |
| g. ♀ ad. sk. | Waigiou. | A. R. Wallace, Esq. [C.]. |

6. *Pœcilodryas bimaculata*.

Myiolestes? bimaculata, *Salvad. Ann. Mus. Civic. Genov.* vi. p. 84.

Pœcilodryas bimaculata, *Sharpe, Notes Leyden Mus.* i. no. 7, p. 25.

Adult male (Profi, Mount Arfak: *Beccari*). Above velvety black; upper tail-coverts white, forming a band across; wings and tail black; sides of face, sides of neck, throat, and breast black, as well as the flanks and thighs; abdomen, vent, and under tail-coverts white; on each side of the chest a broad line of pure white feathers running from the sides of the lower throat to the sides of the upper

breast ; under wing-coverts black ; quills ashy black below. Total length 5·1 inches, culmen 0·6, wing 3·3, tail 2, tarsus 0·85. (*Mus. Civic. Genov.*)

Hab. North-western New Guinea.

7. *Pœcilodryas albinotata*. (Plate VII.)

Megalestes albonotatus, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 770.

Pœcilodryas albinotata, *Sharpe, Notes Leyden Mus.* i. no. 7, p. 25.

Adult male. General colour above slaty grey, lighter on the sides of crown and forehead ; wing-coverts like the back ; primary-coverts and quills black, the latter edged with bluish grey ; tail blackish, washed with slate-colour, the outer feathers edged with the latter colour ; a narrow frontal line, lores, feathers above the eye, sides of face, throat, fore neck, and centre of breast black ; on each side of the lower throat a large patch of creamy-white feathers ; sides of breast and flanks slaty grey, lighter on the latter ; thighs slaty grey ; centre of body below, as well as the under tail-coverts, white ; under wing-coverts slate-colour ; quills ashy brown below, white along the edge of the inner webs. Total length 6·7 inches, culmen 0·8, wing 4·35, tail 3·1, tarsus 0·85.

Hab. North-western New Guinea ; Arfak Mountains.

a. ♂ ad. sk. Arfak Mountains, Feb. 15, 1876. M. Laglaize [C.].

8. *Pœcilodryas leucops*. (Plate VIII. fig. 2.)

Leucophantes leucops, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 291.

Pœcilodryas leucops, *Sharpe, Notes Leyden Mus.* i. no. 7, p. 25.

Adult male (Profi, Mount Arfak, *Beccari* ; type of species). General colour above yellowish green ; wing-coverts like the back, with tips of clearer yellow to the greater series ; primary-coverts sepia-brown, contrasting with the rest of the wing ; quills dark brown, externally edged with yellowish green, rather browner on the secondaries ; tail-feathers brown, with narrow linear tips of yellowish white, and washed on the margins with olivaceous brown ; head dark slaty grey, becoming clearer grey on the nape and sides of neck ; the forehead and sides of the crown blackish, as are also the feathers in front of, below, and round the eye ; a large loreal spot of white occupying the entire space in front of the eye ; ear-coverts dark slaty grey ; cheeks and chin white ; remainder of under surface of body bright yellow, the sides somewhat shaded with olive-greenish, especially the sides of the breast ; under wing-coverts and axillaries paler yellow ; quills brown below, rusty along the edge of the inner web. Total length 4·8 inches, culmen 0·55, wing 3·2, tail 2·15, tarsus 0·8. (*Mus. Genov.*)

Hab. Arfak Mountains, North-western New Guinea.

a. Ad. sk. Arfak Mountains. Purchased.

9. *Pœcilodryas capito*.

Eopsaltria capito, *Gould, P. Z. S.* 1851, p. 285 ; *id. B. Austr. folio*,

Suppl. pl. xvii.; *id. Handb. B. Austr.* i. p. 297; *Gray, Hand-l. B.* i. p. 389, no. 5915; *Diggles, Orn. Austr.* pl. 41. fig. 4; *Ramsay, Proc. Linn. Soc. N. S. W.* ii. p. 183 (pt.).

Pœcilodryas capito, *Sharpe, Notes Leyden Mus.* i. no. 7, p. 25.

Adult male. General colour above yellowish green, of an olive cast, the head dusky ash-grey, slightly washed with olive; sides of face and ear-coverts ashy grey, including the cheeks; lores and feathers in front of the eye white, forming a conspicuous spot, which extends below the fore part of the eye; fore part of cheeks also white, the remainder and the ear-coverts with white shaft-lines; chin and upper throat greyish white; lower throat and remainder of under surface bright yellow, the flanks olive-green, as also the sides of the breast; under wing-coverts and axillaries white, edged with yellow; least wing-coverts above green like the back, the median and greater series, as well as the quills, dusky brown, edged with the same green as the back, the quills white at the base of the inner web; tail-feathers dusky brown, externally edged with olive-green, and margined with white at the tip and for a great part of the inner web: "bill black; feet brownish flesh-colour; iris hazel" (*Gould*). Total length 5.1 inches, culmen 0.5, wing 3, tail 2.1, tarsus 0.8. (*Mus. Lugd.*)

Adult female. Similar to the male, but smaller in size. (*Gould.*)

Hab. Richmond and Clarence-River districts, New South Wales.

10. *Pœcilodryas nana*.

Eopsaltria capito, *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 183 (pt.).

Eopsaltria nana, *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 373.

Pœcilodryas nana, *Sharpe, Notes Leyden Mus.* i. no. 7, p. 25.

Adult male. Head and neck dark brown; ear-coverts and hind neck of the same colour, but of a lighter and more ashy tint; lores and a ring nearly surrounding the eye white, the tips of the feathers distinctly tinged with light rufous or rusty red; bristles long, strong, and black; throat and upper part of the chest white; back, rump, and upper tail- and wing-coverts greenish olive; wings and tail brown, margined on the outer webs with olive; breast, abdomen, and remainder of the under surface and the under tail-coverts yellow, deepest on the abdomen, and tinged with olive on the sides; on the underside of the wing is a white patch at the base of the primaries, and below it a large patch of brown joining the base of the wing-quills; the inner webs of the quills towards the base are conspicuously margined with white, which, being a little wider on the secondaries, forms a triangular patch on the under surface of the wing; the under wing-coverts and axillaries light yellow; on the upper surface of the wing the narrow olive margin on the outer webs of the quills is somewhat broken about the middle, giving the appearance of a shadowy dark mark across the wing; the outer margin of the tail-feathers inclines to olive-brown above; the inner, below, and the tips of the feathers are more or less narrowly margined with white or very light fulvous; bill black; feet and legs yellowish flesh-colour. Total length 4.45 inches, culmen 0.6, wing 2.88, tail 2.1, tarsus 0.78. (*Ramsay.*)

Adult female. Like the male, but the white on the throat not extending onto the chest, and the bill a trifle smaller. (*Id. l. c.*)

Hab. Queensland.

Obs. Mr. Ramsay speaks of having seen a good many specimens of this supposed new species. Mr. Godman's collection contains a single example, which has the loreal spot white, with the eye-ring only tinged with rufous, which also pervades the cheeks and chin. This would seem to indicate that the rufous tinge is a sign of immaturity; and the species is certainly doubtful.

11. *Pœcilodryas papuana*. (Plate VIII. fig. 1.)

Microeca papuana, Meyer, *Sitz. Gesellsch. Isis*, 1875, p. 75; *id. Abhandl. Dresden*, i. p. 9.

Leucophantes hypoxanthus, Salvad. *Ann. Mus. Civic. Genov.* vii. p. 920.

Pœcilodryas papuana, Sharpe, *Notes Leyden Mus.* i. no. 7, p. 25.

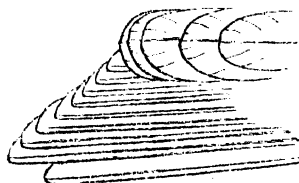
Adult male (Atam: type of *Leucophantes hypoxanthus*). General colour dull olive-yellow, the shafts of the plumes lighter yellow, the head slightly duller than the back; wing-coverts like the back; quills brown, externally edged with dull olive-yellow; tail brown, washed with olive-yellow on the margins of the feathers; lores and a ring round the eye bright yellow; in front of the eye a dusky spot; sides of face yellow, the ear-coverts washed with greenish; under surface of body bright yellow, washed with olive on the sides of the breast and flanks; under wing-coverts and axillaries yellow; quills ashy brown below, with whitish edgings to the inner webs. Total length 4.4 inches, culmen 0.45, wing 2.85, tail 1.8, tarsus 0.65. (*Mus. Genov.*)

Hab. North-western New Guinea.

| | | |
|-------------------|------------------------------------|-----------------------|
| <i>a.</i> Ad. sk. | Arfak Mountains, New Guinea. | Dr. A. B. Meyer [C.]. |
| <i>b.</i> Ad. sk. | Arfak Mountains (<i>Bruijn</i>). | Leiden Museum [P.]. |

27. NYLIOTA.

Nyliota, Swains. *Classif. B.* ii. p. 260 (1837) Type. *N. flavigastra*.



Wing of *Nyliota flavigastra*.

Range. Confined to Africa.

Key to the Species.

- a.* Thighs white; rump whitish *flavigastra*, p. 248.
- b.* Thighs black; rump like the back *violacea*, p. 248.

1. *Hyliota flavigastra*.

Hyliota flavigastra, Swains. *Classif. B.* ii. p. 260; *id. B. W. Afr.* ii. p. 47; *id. Monogr. Flyc.* p. 228, pl. 28; *Bp. Consp.* i. p. 319; *Hartl. Orn. W.-Afr.* p. 97, no. 299; *Heugl. Orn. N.O.-Afr.* p. 440; *Bouvier, Cat. Ois. Marche, &c.* p. 19.

Hyliota orientalis, *Heugl. J. f. O.* 1863, p. 274.

Muscicapa flavigastra, Gray, *Hand-l. B.* i. p. 323, no. 4851.

Adult male. General colour above glossy purplish black, the feathers of the rump very long and lax, silky white or greyish with purplish-black ends; least wing-coverts purplish black like the back; remainder of the wing-coverts pure white, forming a large shoulder-patch; outer greater coverts white at base, blackish at tip; primary-coverts and quills black, with a narrow edging of glossy purplish, the inner secondaries white at the base of the outer web; tail-feathers black, glossed on the outer web with steel-green; lores, feathers round the eye, and ear-coverts glossy purplish black; cheeks and under surface of body ochraceous yellow, deeper on the breast and paler on the vent and under tail-coverts; thighs whitish; under wing-coverts and axillaries white, as also the inner lining of the quills underneath. Total length 4·6 inches, culmen 0·55, wing 2·8, tail 1·9, tarsus 0·7.

Female. Above dull grey; quills and lateral tail-feathers narrowly edged with white. (*Hartlaub.*)

Hab. N.E. Africa; Senegambia.

a. ♂ ad. sk.

Senegambia.

R. B. Sharpe, Esq.

2. *Hyliota violacea*.

Hyliota violacea, J. & E. Verr. *Rev. et Mag. de Zool.* 1851, p. 308; *Strickl. Contr. Orn.* 1851, p. 132; *Hartl. Orn. W.-Afr.* p. 98; *Cass. Pr. Philad. Acad.* 1859, p. 51; *Hartl. J. f. O.* 1861, p. 170; *Bocage, Journ. Lisb.* 1870, p. 343; *id. Orn. Angola*, p. 190; *Sharpe, ed. Layard, B. S. Afr.* p. 336, no. 322.

Muscicapa violacea, Gray, *Hand-l. B.* i. p. 323.

Adult male. All the upperparts blue-black, with a steel-blue and violet reflection; a large white band on the wing, formed by the lesser and greater wing-coverts and the outer webs of the innermost secondaries; below white, washed with buff, the breast more strongly tinged with this colour; under tail-coverts pure white; quills of the same colour as the back, blackish below, bordered with white along their inner webs; "upper mandible dark brown, the lower one paler; tarsi and toes blackish; iris chocolate" (*Anchieta*). Total length 5 inches, culmen 0·45, wing 2·95, tail 2·05, tarsus 0·8. (*Bocage.*)

Hab. West Africa from Gaboon to Benguela.

Obs. On this doubtful species Prof. Barboza du Bocage's remarks should be studied.

28. XANTHOPYGIA.

| | Type. |
|---|-------------------------|
| <i>Zanthopygia</i> , <i>Blyth</i> , <i>J. A. S. B.</i> xvi. p. 123 (1847) .. | <i>X. tricolor</i> . |
| <i>Cyanoptila</i> , <i>Blyth</i> , <i>J. A. S. B.</i> xvi. p. 124 (1847) .. | <i>X. cyanomelæna</i> . |
| <i>Charidhylas</i> , <i>Bp. C. R.</i> xxxviii. p. 651 (1854) | <i>X. narcissina</i> . |
| <i>Rhyacornis</i> , <i>Blanford</i> , <i>J. A. S. B.</i> xli. pt. 2, p. 51 (1873) | <i>X. fuliginosa</i> . |
| <i>Nymphæus</i> , <i>Hume</i> , <i>Nest & Eggs Ind. B.</i> p. 322 (1873) | <i>X. fuliginosa</i> . |

Range. China and Japan, extending in winter to the Philippines, Borneo, and the Malayan peninsula.

*Key to the Species.**Males.*

- a. Tail black; upper tail-coverts black; rump yellow; throat and breast yellow.
 - a'. With a yellow eyebrow; secondaries entirely black..... *narcissina*, p. 249.
 - b'. With a white eyebrow: one inner secondary white along the outer web, forming a line down the wing *tricolor*, p. 250.
- b. Tail black, the feathers blue externally and white at base; rump and upper tail-coverts blue like the rest of the upper surface; breast and abdomen white; throat and chest black *cyanomelæna*, p. 251.
- c. Tail chestnut; upper tail-coverts also chestnut; upper and under surface leaden blue; under tail-coverts chestnut *fuliginosa*, p. 253.

Females.

- a. No white at base of tail-feathers.
 - a'. General colour above olive-brown, greener on the rump; secondaries without any white bar down the wings; wing-coverts not tipped with white *narcissina*, p. 249.
 - b'. General colour olive-brown, with a broad yellow band across the rump; greater coverts white at the tips; one of the inner secondaries externally white, forming a longitudinal bar down the wing .. *tricolor*, p. 250.
- b. Tail-feathers white for the basal half or for the greater part of the outermost feathers.
 - c'. Upper tail-coverts blue; under surface uniform ashy or rusty brown, the abdomen white; on the throat a patch of white or yellow *cyanomelæna*, p. 251.
 - d'. Upper tail-coverts white; under surface ashy grey, mottled with whitish cross bars. *fuliginosa*, p. 253.

1. *Xanthopygia narcissina*.

Muscicapa narcissina, *Temm. Pl. Col.* iii. pl. 577. fig. 1; *Gray, Gen. B.* i. p. 263; *Temm. & Schl. Faun. Japon., Aves*, p. 46, pl. 17 C; *Gray, Hand-l. B.* i. p. 323, no. 4848.

Zanthopygia chrysophrys, *Blyth*, *J. A. S. B.* xvi. p. 124.

Zanthopygia narceissina, *Blyth*, *Cat. B. Mus. A. S. B.* p. 155; *Bp. Consp.* i. p. 327; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 283; *Swinh. Ibis*, 1860, p. 58; *id. P. Z. S.* 1871, p. 380; *David & Oustalet. Ois. Chine*, p. 119; *Sharpe, Tr. Linn. Soc. new series*, vol. i. 327; *Blakiston & Pryer, Ibis*, 1878, p. 234.

Adult male. General colour above black, as also the scapulars, the latter with a slight wash of yellow; from the base of the upper mandible over the eyes a broad streak of brilliant yellow; lores, sides of face, and sides of neck black; wings black, the primaries indistinctly shaded with obscure ashy brown, the inner median and greater coverts white on the inner web, the innermost entirely pure white, forming a large shoulder-patch; entire lower back and rump bright yellow inclining to orange; upper tail-coverts and tail glossy black; under surface of body bright orange, paling into yellow on the breast, and shading off into white on the lower abdomen and under tail-coverts, the latter being pure white; sides of the breast black, the flanks greyish black washed with yellowish; thighs black; under wing-coverts and axillaries white, the outermost slaty black, edged with white, the quills dusky brown below, white at the base of the inner web. Total length 5·3 inches, culmen 0·5, wing 3·15, tail 2·1, tarsus 0·65.

Adult female. General colour above olive-brown, inclining to greenish olive on the rump; upper tail-coverts and tail rufous, the latter brown at the tip and on the inner webs of the feathers; wing-coverts brown, the greater and median series edged and tipped with pale rufous or dull white; primary-coverts uniform brown; quills brown, narrowly edged with pale rufous, rather more broadly on the secondaries; lores and feathers over the eye, as well as a ring of feathers round the latter, yellowish white; feathers in front of the eye dusky; ear-coverts brown; under surface of body whitish, washed with yellow, somewhat brighter on the throat, many of the feathers mottled with edgings of dusky brown; under wing-coverts brownish white, those along the edge of the wing brown. Total length 4·6 inches, wing 2·95, tail 1·95, tarsus 0·65.

Hab. China and Japan, ranging into the Philippines in winter.

| | | |
|--------------|-----------------|--------------------------|
| a. Ad. st. | China. | J. R. Reeves, Esq. [P.]. |
| b. ♀ ad. sk. | Amoy, May 1861. | J. R. Reeves, Esq. [P.]. |
| c. Ad. sk. | Japan. | Leiden Museum. |

2. *Xanthopygia tricolor.*

Muscicapa xanthopygia, *A. Hay, Madr. Journ.* xiii. pt. 2, p. 162.

Muscicapa (Muscicapula) tricolor, *Hartl. Rev. Zool.* 1845, p. 406.

Zanthopygia leucophrys, *Blyth*, *J. A. S. B.* xvi. p. 154; *id. Cat. B. Mus. A. S. B.* p. 155; *Bp. Consp.* i. p. 326; *Swinh. Ibis*, 1861, p. 410; *id. P. Z. S.* 1862, p. 317.

Zanthopygia tricolor, *Blyth*, *Cat. B. Mus. A. S. B. App.* p. xxi; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 284; *Swinh. P. Z. S.* 1871, p. 380; *David & Oustalet, Ois. de la Chine*, p. 118, pl. 80.

Muscicapa hylocharis, *Temm. & Schl. Faun. Japon., Aves*, p. 44, pl. 17 (♀).

Butalis hylocharis, *Bp. Consp. i. p. 318.*

Muscicapa tricolor, *Gray, Hand-l. B. i. p. 323, no. 4847.*

Xanthopygia hylocharis, *David & Oustalet, Ois. Chine, p. 119.*

Adult male. General colour above black, the lower back and rump bright yellow; upper tail-coverts and tail black; wings also black, excepting a white band down the inner portion, composed of the inner greater coverts, some of which are white on the outer web and some entirely white, one of the inner secondaries also having its outer web white; a narrow loreal line, feathers round the eye, and sides of the face black; over the eye a broad superciliary streak of white, running not quite to the base of the nostrils, from which it is separated by the foregoing narrow black loreal line; cheeks and under surface of body bright yellow, a little paler towards the vent; under tail-coverts white; thighs white, with dull black bases; under wing-coverts and axillaries pure white; quills blackish below, white along the inner webs; "bill black; feet bluish; iris black" (*David*). Total length 4.9 inches, culmen 0.5, wing 2.9, tail 2.15, tarsus 0.65.

Adult female. Different from the male. Above olive-brown, inclining to greenish on the lower back; rump lemon-yellow; upper tail-coverts and tail black; wings as in the male, but browner; sides of face olive-brown, the ear-coverts washed with yellow; lores and feathers round the eye dull white; under surface of body very pale yellow, the throat and chest with remains of obscure ashy margins to the feathers; under wing- and tail-coverts white. Total length 5 inches, wing 2.65, tail 1.85, tarsus 0.6. (*Mus. H. Seeböhm.*)

Hab. Japan, ranging through China southwards to the Malayan peninsula.

| | | |
|---------------|-------------------|----------------|
| a. Ad. st. | Japan. | Leyden Museum. |
| b. ♂ ad. sk. | Kessang, Malacca. | M. A. Bouvier. |
| c. ♀ juv. sk. | Malacca. | Purchased. |

3. *Xanthopygia cyanomelæna*.

Muscicapa cyanomelana, *Temm. Pl. Col. iii. pl. 470; Temm. & Schl. Faun. Jap. p. 47.*

Muscicapa bella, *A. Hay, Madr. Journ. xiii. pt. 2, p. 158.*

Cyanoptila cyanomelanura, *Blyth, J. A. S. B. xvi. p. 125; id. Cat. B.*

Mus. A. S. B. p. 174; id. Ibis, 1870, p. 164.

Niltara cyanomelæna, *Gray, Gen. B. i. p. 264; Swinh. Ibis, 1860, p. 380, et 1861, p. 41; Gray, Hand-l. B. i. p. 326, no. 4892.*

Muscicapa melanoleuca, *Temm. & Schl. Faun. Japon., Aves, pl. 17 D.*

Muscicapa gularis, *Temm. & Schl. t. c. pl. 16 (♀).*

Butalis gularis, *Bp. Consp. i. p. 318.*

Hypothymis cyanomelæna, *Bp. Consp. i. p. 320; Cass. in Perry's Exp. Japan, p. 239; Swinh. Ibis, 1862, p. 306.*

Cyanoptila cyanomelæna, *Horsf. & Moore, Cat. B. Mus. E.I. Co. i. p. 291; Swinh. P. Z. S. 1871, p. 386; David & Oustalet, Ois. Chine, p. 116, pl. 81; Blakiston & Pryer, Ibis, 1878, p. 234.*

Adult male. General colour above blue, the greater coverts uniform with the back, the lesser and median coverts brighter and more cobalt-blue, forming a shoulder-patch; head still brighter and more lazuline blue, richest on the forehead; a narrow frontal line, lores, eyelid, sides of face, and entire throat and chest black; rest of under surface of body pure white, the flanks ashy; thighs black; under wing-coverts dusky brown, broadly edged with blue, the edge of the wing bright blue; primary-coverts and quills dusky brown, externally greenish blue; middle tail-feathers dark blue, the remainder blue on the outer web, black on the inner, with conspicuous white bases to the feathers; "bill black; legs brown; iris black" (*David*). Total length 5.5 inches, culmen 0.55, wing 3.4, tail 2.4, tarsus 0.6.

Obs. A male bird from Japan, in the Leiden Museum, marked *Cyanoptila cyanothorax*, is a little different from the full-plumaged male, being of a greener cobalt above, and has the throat washed with greenish blue. The blue colour on the head is different, being brighter cobalt. Specimens from Borneo do not differ from the Japanese bird described in any important particulars: one has a gloss of blue on the throat and chest, another is more greenish blue above, while a Tingchow male has the back greenish blue, with distinct black shaft-streaks.

Adult female. Different from the male. Ashy brown above, washed with pale verditer-blue on the scapulars, lower back, and upper tail-coverts; least wing-coverts bright blue as in adult male, the rest and the quills externally verditer-blue, the outermost of the greater series dull brown, edged with ashy brown and narrowly tipped with whitish; tail as in male, but rather more greenish blue; lores and anterior part of cheeks rufescent buff; ear-coverts ashy brown, with whitish shaft-lines; throat, abdomen, and under tail-coverts white; fore neck, chest, and sides of body ashy brown; under wing-coverts and axillaries ashy brown, the edge of the wing blue; "bill blackish brown; legs greyish brown; iris dark brown" (*Swinhoe*). Wing 3.5 inches, tail 2.4, tarsus 0.6.

Young male. Similar to old female, but having the back greenish blue, only the head and neck ashy brown, even the crown being slightly shaded with blue; upper tail-coverts with white edgings; wings and tail as in adult, the outer greater coverts tipped with buff; below as in the female, but having the throat ochraceous, the breast washed with ochre, as also the sides of the body.

Hab. From Japan, throughout China, extending to Borneo in winter.

| | | |
|--------------------------|--------------------|-----------------------|
| a. ♂ ad. sk. | Nagasaki, Japan. | Mr. H. Whitely. |
| b. ♂ ad. sk. | Tingchow, Formosa. | R. Swinhoe, Esq. [C.] |
| c. ♂ ad.; d, e. Juv. | N.W. Borneo. | Hugh Low, Esq. [C.] |
| f. ♀ ad. sk. | Lumbidan. | Governor Ussher [C.] |
| g. ♂ ad.; h, i. Juv. sk. | Labuan. | Governor Ussher [C.] |

4. *Xanthopygia fuliginosa*.

Phoenicura fuliginosa, Vigors, *P. Z. S.* 1831, p. 35; *Blyth, J. A. S. B.* xi. p. 190.

Phoenicura plumbea, Gould, *P. Z. S.* 1835, p. 185.

Ruticilla simplex, Lesson, *Rev. Zool.* 1840, p. 265.

Phoenicura rubicauda, *Hodgson in Gray's Zool. Misc.* p. 82.

Phoenicura lineoventris, *id. Icon. ined., Passeres*, pl. 74 a (no. 418).

Ruticilla fuliginosa, Gray, *Gen. B.* i. p. 180; *id. Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 68; *Blyth, J. A. S. B.* xvi. p. 134; *id. Cat. B. Mus. A. S. B.* p. 296; Moore, *P. Z. S.* 1854, p. 29; *Horsf. & Moore, Cat. B. Mus. E.I. Co. i.* p. 308; *Jerdon, B. Ind.* ii. p. 142; Gray, *Hand-l. B.* i. p. 221, no. 3166; *Swinh. P. Z. S.* 1871, p. 358; *Hume & Henders. Lahore to Yarkand*, p. 212, pl. 15; *Prjevalski in Rowley's Orn. Misc.* ii. p. 177.

Ruticilla plumbea, *Blyth, J. A. S. B.* xvi. p. 134.

Rhyacornis fuliginosa, *Blanford, J. A. S. B.* xli. pt. 1, p. 51; *Blyth & Walden, B. Burm.* p. 101; *Brooks, Str. F.* 1875, p. 240; *Inglis, Str. F.* 1877, p. 37; *David & Oustalet, Ois. Chine*, p. 171.

Nymphæus fuliginosus, *Hume, Nests & Eggs Ind. B.* p. 322.

Adult male. General colour above leaden blue, the rump-feathers white, tipped with chestnut like the adjoining upper tail-coverts; tail chestnut with a slight shade of dull brown at the tip; wing-coverts like the back; quills dusky blackish, edged with light slaty grey; a narrow line at the base of the forehead and the feathers in front of the eye blackish; sides of face, sides of neck, and under surface of body leaden blue, including the thighs; under tail-coverts rich chestnut; under wing-coverts like the breast; quills dusky brown below, with a lighter edging to the inner webs; "bill black; legs vinaceous brown; iris dark brown" (*Jerdon*). Total length 4·5 inches, culmen 0·45, wing 3·05, tail 2·1, tarsus 0·9.

Adult female. Different from the male. General colour above dull ashy, the wing-coverts like the back, and tipped with a small spot of ashy white; primary-coverts dark brown; quills dark brown with lighter brown edges; upper tail-coverts white; two centre tail-feathers rufous-brown, the rest white, brown at the tips, the white increasing obliquely towards the outer tail-feather, which is entirely white, excepting a narrow edging along the outer web and a small brown tip to the inner one; lores buffy white mottled with dusky bases to the feathers; eye-ring dull rufous; ear-coverts dull ashy brown with broad white shaft-streaks; under surface of body greyish ash-colour mottled with central streaks of white, the centre of the breast and abdomen white, varied with ashy brown margins and mesial spots of the same colour; under tail-coverts white; thighs ashy brown; under wing-coverts and axillaries ashy brown, the former slightly mottled with subterminal spots of white; quills dark brown below, lighter brown along the edge of the inner web. Total length 4·5 inches, culmen 0·45, wing 2·6, tail 1·9, tarsus 0·85.

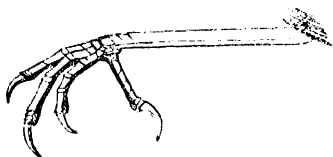
Hab. Himalaya Mountains, ranging eastwards throughout the mountains of China, to Peking and Mongolia.

| | | |
|------------------------------|-------------------------|--------------------------------|
| a. ♂ ad. st. | India. | J. Gould, Esq. |
| b. Juv.; c. ♂ imm. sk. | Cashmere. | R. B. Sharpe, Esq. [P.]. |
| d, e. ♂ ad. sk. | Cashmere. | E. M. Langworthy, Esq. [P.]. |
| f. ♂ ad. sk. | Ladakh. | Purchased. |
| g, h. ♂ ad. sk. | Kangra, N.W. Provinces. | Capt. Stackhouse Pinwill [P.]. |
| i. ♂ ad.; k, l. ♀ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| m. ♂ ad.; n, o. ♀ ad. st. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| p, q. ♂ ad.; r, s. ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |

29. TARSIGER.

Type.

| | |
|--|----------------------|
| Nemura, <i>Hodgs. P. Z. S.</i> 1845, p. 27 (<i>nec Latr.</i> 1796) .. | <i>T. rufilatus.</i> |
| Tarsiger, <i>Hodgs. P. Z. S.</i> 1845, p. 28 | <i>T. chrysœus.</i> |
| Ianthia, <i>Blyth, J. A. S. B.</i> xvi. p. 132 (1847) | <i>T. rufilatus.</i> |
| Pogonocichla, <i>Cab. Arch. f. Naturg.</i> 1847, p. 314 | <i>T. stellatus.</i> |
| Nitidula, <i>Jerd. & Blyth, P. Z. S.</i> 1861, p. 201 | <i>T. hodgsoni.</i> |

Bill and leg of *Tarsiger stellatus*.

Range. The whole of Northern Asia from the Ural Mountains to Japan, extending throughout China and the Himalayas, recurring again in South Africa.

Key to the Species.

- a. Tail uniform blue or grey, or black with blue margins.
 - a'. Throat white, either yellowish or greyish white like the rest of the under surface; the sides of the body bright orange in strong contrast; tail blue.
 - a'. Lores and eyebrow white, surmounted by a narrow line of cobalt-blue, separating it from the crown; under surface creamy white *cyanurus*, p. 255.
 - b'. Lores and eyebrow brilliant cobalt; below greyish white *rufilatus*, p. 256.
 - b. Throat rufous or orange-yellow below, like the breast and abdomen, not whitish.
 - c'. With no white eyebrow; a blue streak on the sides of the crown.
 - a'''. Size much larger; length 4·8 inches: under surface chestnut *hyperythrus*, p. 257.
 - b'''. Size smaller; length 3·6 inches: under surface orange-yellow *hodgsoni*, p. 258.
 - d'. With a very long and broad white eyebrow; colour above slaty grey; below rufous or orange *indicus*, p. 259.

- b. Tail particoloured, yellow, with a broad terminal band of black on all but the two centre feathers, which are entirely black.
- c. Bill blackish above, lower mandible yellow; head olive-brown like the mantle; ear-coverts and feathers round the eye black; throat yellow like rest of under surface . . . *chrysæus*, p. 260.
- d. Bill entirely black; head dark blue-grey all round, with a white spot above the fore part of the eye and at base of throat . . . *stellatus*, p. 261.

1. Tarsiger cyanurus.

- Motacilla cyanurus*, *Pall. Reisen Russisch. Reichs*, ii. *App.* p. 709.
- Motacilla cyanura*, *Pall. Zoogr. Rosso-Asiat.* i. p. 490, tab. 30.
- Enanthe cyanura*, *Vieill. N. Dict. d'Hist. Nat.* xxi. p. 436.
- Lusciola cyanura*, *Temm. & Schl. Faun. Japon.*, *Aves*, p. 54, pl. 21.
- Nemura cyanura*, *Bp. Consp.* i. p. 300; *Gray, Hand-l. B.* i. p. 222, no. 3185; *Prjer. in Rowley's Orn. Misc.* ii. p. 179; *Dresser, B. Eur.* parts lxxvii., lxxviii. (♀ ad. descr. et fig., ♂ juv. descr.).
- Sylvia (Nemura) cyanura*, *Müllend. Reis. Sibir.* ii. p. 177, Taf. 15. fig. 5 (young); *Raddle, Sibir. Reis.* ii. p. 258.
- Ianthia rufilata*, *Swinh. Ibis*, 1861, p. 329 (*see Hodg.*).
- Lusciola (Nemura) cyanea*, *Schrenck, Reis. Amurl.* ii. p. 361.
- Ianthia cyanura*, *Swinh. P. Z. S.* 1871, p. 359; *David & Oustal. Ois. Chine*, p. 231, pl. 28; *Blakist. & Pryer, Ibis*, 1878, p. 239.

Adult male in full plumage (Tientsin, *R. Swinhoe*). General colour above greyish blue, inclining to richer cobalt-blue on the rump and upper tail-coverts; a distinct shoulder-patch of cobalt-blue formed by the lesser wing-coverts; median and greater coverts dusky brown, edged with blue, the inner secondaries also margined with dull blue, the outer secondaries and the primaries with rusty brown; tail blue, the inner webs of the feathers dusky greyish brown; a broad white eyebrow running from the base of the forehead, and separated from the crown by a narrow fringe of cobalt-blue; feathers in front of the eye blackish; ear-coverts and sides of face greyish blue, a little more pronounced on the cheeks and sides of throat; entire under surface of body creamy white, the thighs lavender-grey, the sides of the body bright orange; under wing-coverts and axillaries yellowish white with dusky bases; quills light brown below, fulvescent along the edge of the inner web; "bill black; feet reddish brown; iris brown" (*David*). Total length 5·8 inches, culmen 0·45, wing 3·15, tail 2·5, tarsus 0·9. (*Mus. H. Seebohm*.)

Adult female (Tingchow, Dec. 1867: *R. Swinhoe*). General colour above clear olive-brown, the rump inclining to bluish grey, the upper tail-coverts dull blue, with faint edgings of olive-brown; tail dull blue, ashy brown on the inner webs of the feathers; least wing-coverts like the back; median and greater coverts, as well as the primary-coverts, dusky brown, edged with yellowish brown; quills dusky brown, with edgings of rufescent brown; lores yellowish buff; round the eye a ring of buffy white feathers; sides of face, cheeks, and ear-coverts olive-brown, with mesial shaft-lines of deep fulvous; throat yellowish buff, separated from the whitish abdomen

by an olive-brown pectoral band, the centre feathers being yellowish buff, with olive-brown margins; sides of body orange, shading off into yellowish buff on the lower flanks and sides of vent; under tail-coverts fulvous-white; thighs lavender-brown; under wing-coverts and axillaries yellowish buff, with dusky bases; quills brown below, fulvous along the edge of the inner web. Total length 4·7 inches, culmen 0·45, wing 2·95, tail 2·2, tarsus 0·9. (*Mus. H. Seebohm.*)

Obs. As in the case of the allied Indian species, *T. rufilatus*, it is evident that the male of *T. cyanurus* takes some time to gain the adult dress; and that its female plumage is shown by Mr. Seebohm's specimens obtained on the Yen-e-say River at the end of May; both are dissected males. Pallas was partly aware of the fact, for he says that the males and females are alike in plumage; but states that he also, on two occasions, procured brighter blue birds, which he found very rare, and considered to be a variety. Mr. Seebohm's males, killed in May and June 1877, are in a dress resembling that of the female, but rather more ashy brown above and purer white below, the sides of the breast greyish brown; the flanks are brighter orange, and the white loreal streaks are very distinctly indicated; the quills are edged with olive-brown instead of rufous-olive.

Hab. From the Ural Mountains across Siberia to China and Japan.

| | | |
|-------------------|--|-----------------------|
| a. ♂ ad. st. | Japan. | Purchased. |
| b, c. ♂ ♀ ad. sk. | East Siberia. | Dr. Brandt. |
| d. ♂ imm. sk. | Kultuk, S.E. of Lake Baikal, Jan. 18, 1870 (<i>Dr. Dybowski</i>). | Warsaw Museum [E.]. |
| e. ♂ juv. sk. | Nisamskia Jurti, Ob River, Sept. 18, 1876. | Dr. Otto Finsch [C.]. |

2. *Tarsiger rufilatus*.

Nemura rufilata, *Hodgs. Icon. ined. Passeres*, pl. 88 (Hodgs. no. 484); *id. in Gray's Zool. Misc.* p. 83; *id. P. Z. S.* 1845, p. 27; *Gray, Cat. Mamm. Sc. Nepal Coli.* *Hodgs.* p. 69; *id. Gen. B. i.* p. 180; *Bp. Consp. i.* p. 300; *Horsf. & Moore, Cat. B. Mus. E.I. Co. i.* p. 299; *Gray, Hand-l. B. i.* p. 222, no. 3186; *Hume, Nests and Eggs Ind. B.* p. 324.

Nemura cyanura, *Hodgs. Icon. ined., Passeres*, pl. 76. fig. 3 (Hodgs. no. 407); *id. P. Z. S.* 1845, p. 27 (♀, *nec Pall.*).

Ianthia rufilata, *Blyth, J. A. S. B.* xvi. p. 132; *id. Cat. B. Mus. A. S. B.* p. 170; *Jard. Contr. Orn.* 1850, p. 28, pl. 44; *Blyth, Ibis*, 1867, p. 16; *Brooks, Str. F.* 1875, p. 240, 1876, p. 229, 1877, p. 470.

Ianthia cyanura, *Jerd. B. Ind.* ii. p. 146 (*nec Pall.*); *Godwin-Aust. J. A. S. B.* 1870, p. 106.

"*Nemura cyanura* (*Pall.*)," *Dresser, B. Eur.* pts. lxxvii., lxxviii. (♂ ad. descr. et fig.) (*nec Pall.*).

Adult male. General colour above dark ultramarine, brighter and inclining to deep cobalt-blue on the rump and upper tail-coverts; forehead also bright cobalt, extending backwards above the eye, and

forming a distinct eyebrow; least wing-coverts bright cobalt, forming a conspicuous shoulder-patch; remainder of wing-coverts and quills blackish, edged with dark ultramarine, inclining to greyish blue on the margins of the primaries; tail-feathers dark blue, blackish on their inner webs; lores and feathers round the eye dusky blue-black; entire sides of the face dark blue, as well as the feathers bordering the throat for the whole extent of the latter; throat and centre of the body below greyish white, inclining to pure white on the abdomen and under tail-coverts, the sides of the body bright orange, contrasting strongly with the breast; thighs dull blue; under wing-coverts and axillaries white, slightly washed with fulvous, the edge of the wing blue; quills dusky brown below, lighter ashy along the edge of the inner webs; "bill dusky; legs brown; iris dark brown" (*Jerdon*). Total length 5·8 inches, culmen 0·45, wing 3·2, tail 2·5, tarsus 0·95.

Adult female. General colour above olive-brown, becoming gradually more ashy blue on the rump, and bright cobalt on the upper tail-coverts; least and median wing-coverts like the back, the greater coverts and quills dark brown, margined with reddish olive, more distinctly of the latter colour on the primaries; tail blue, blackish on the inner web; lores buff; over the eye a faint indication of a greyish eyebrow; round the eye a ring of buff-coloured feathers; sides of face and cheeks olive-brown; throat buffy white; fore neck and breast light olive-brown, extending onto the flanks; centre of abdomen and under tail-coverts white; thighs dusky brown; sides of body bright orange, as in the male; axillaries yellowish buff; under wing-coverts whitish, with dusky bases; quills brown below, fulvescent along the inner web. Total length 5·2 inches, culmen 0·45, wing 3·15, tail 2·5, tarsus 0·95.

Male birds are some time before they gain their full plumage, and are known to breed in the olive-brown dress, resembling that of the adult female. (Cf. *Brooks, Stray Feathers*, l. c.)

Hab. Himalaya Mountains.

| | | |
|--------------------------|-----------------|--------------------------------|
| a. ♂ ad. sk. | Cashmere. | E. M. Langworthy, Esq. [P.]. |
| b. ♂ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| c. ♂ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| d, e, f. ♂ ad.; g, h, i. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| ♀ ad. sk. | | |
| k. Juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |

3. *Tarsiger hyperythrus*.

- Ianthia hyperythra*, *Blyth, J. A. S. B.* xvi. p. 132; *id. Cat. B. Mus.* A. S. B. p. 170; *Jard. Contr. Orn.* 1842, p. 89, pl. 16. fig. 2; *Jerd. B. Ind.* ii. p. 147; *Godwin-Austen, J. A. S. B.* 1870, p. 106.
Nemura hyperythra, *Gray, Gen. B.* iii. App. p. 8; *Bp. Consp.* i. p. 300; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 299; *Gray, Hand-l. B.* i. p. 222, no. 3187.

Adult male. General colour above dark purplish blue, the forehead brighter and more cobalt-blue, extending backwards over the

fore part of the eye; a shoulder-patch of deep cobalt, formed by the least series of upper wing-coverts, the rest of the wing-coverts and quills dusky blackish, externally edged with purplish blue; tail dark purplish blue, the inner webs of the feathers blackish; lores, feathers round the eye, ear-coverts, sides of face, and sides of throat deep purplish black; the entire under surface of the body chestnut-rufous; thighs brown; lower flanks whitish, forming a tuft on each side of the back; axillaries and under wing-coverts yellowish buff; quills dusky brown, more ashy along the edge of the inner webs; "bill dusky; legs brown" (*Jerdon*). Total length 4·8 inches, culmen 0·45, wing 3·15, tail 2·3, tarsus 1.

Adult female. General colour above warm brown, the lower back and rump greyish, the upper tail-coverts and tail a little brighter blue; least wing-coverts like the back, the median and greater coverts, as well as the quills, dark brown, edged with the same brown as the back, rather more rufous on the margins of the quills; over the eye an indication of a greyish-blue streak; round the eye a ring of fulvous feathers; ear-coverts, sides of face, and under surface of body rufescent brown, lighter on the throat and deeper on the flanks, the middle of the abdomen and under tail-coverts whitish; thighs lavender-brown; under wing-coverts and axillaries yellowish buff with dusky bases; quills dull brown below, ashy fulvous along the edge of the inner web. Total length 5 inches, culmen 0·4, wing 2·95, tail 2·2, tarsus 1.

Hab. Eastern Himalayas and Khasia hills.

a. ♂; b, c, d. ♀ ad. sk.

Nepal.

B. II. Hodgson, Esq. [P.].

4. *Tarsiger hodgsoni*.

Nemura hodgsoni, *Moore*, *P. Z. S.* 1854, p. 76, pl. 62; *Horsf. & Moore*,

Cat. B. Mus. E.I. Co. i. p. 300; *Gray*, *Hand-l. B.* i. p. 222, no. 3188.

Nitidula campbelli, *Jerd. & Blyth*, *P. Z. S.* 1861, p. 201.

Nitidula hodgsoni, *Jerd. B. Ind.* ii. p. 472.

Niltava hodgsoni, *Gray*, *Hand-l. B.* i. p. 327, no. 4903.

Adult male. General colour above deep ultramarine, brighter and more cobalt on the fore part of the crown and over the eye; a broad frontal line, lores, feathers round the eye, sides of face, and ear-coverts black, the latter with a shade of blue; scapulars and wing-coverts deep blue like the back; quills brown, the primary-coverts and primaries narrowly edged with blue on the outer web; tail-feathers blackish, externally washed with blue; cheeks and under surface of body rich orange-yellow, slightly paler on the abdomen, the thighs and under tail-coverts whitish; axillaries, sides of breast, and under wing-coverts pure white; quills blackish below, edged with buffy white along the inner web; "bill black; legs pale reddish; iris dark brown" (*Jerdon*). Total length 3·6 inches, culmen 0·4, wing 1·85, tail 1·4, tarsus 0·6.

Adult female. General colour above yellowish olive-brown, rather deeper and more rufous on the rump and upper tail-coverts; wing-

coverts like the back; quills dark brown, edged externally with the same colour as the back; tail brown, washed externally with rufous-brown; lores and sides of face ochraceous buff, as also a ring of feathers round the eye, the ear-coverts washed with olive; cheeks and under surface of body pale saffron-yellow, deeper on the flanks; centre of abdomen, sides of body, under wing- and tail-coverts white. Total length 3·7 inches, culmen 0·4, wing 1·8, tail 1·35, tarsus 0·65.

Hab. Eastern Himalayas.

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|-------------------|--------------------|-----------------------------|
| a, b. ♀ ad. sk. | Darjiling. | J. Fotheringham, Esq. [C.]. |
| c. ♂ ad. sk. | Sikkim, Nov. 1877. | L. Mandelli, Esq. [P.]. |
| d, e. ♂ ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [C.]. |

5. *Tarsiger indicus*.

Le Rossignol de muraille des Indes, *Sonn. Voy. Ind.* ii. p. 208*.

Sylvia indica, *Vieill. N. Dict. d'Hist. Nat.* xi. p. 267 (*ex Sonn.*); *Less. Traité*, p. 416.

Nemura flavo-olivacea, *Hodgs.*; *id.* in *Gray's Zool. Misc.* p. 83; *id.* *P. Z. S.* 1845, p. 27.

Tarsiger superciliaris, *Hodgs. Icon. incd., Passeres, App.* pl. 57, no. 924; *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 35; *Moore, P. Z. S.* 1854, p. 76; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 311; *Scinh. P. Z. S.* 1871, p. 359.

Ianthia flavo-olivacea, *Blyth, J. A. S. B.* xvi. p. 133.

Erythaca flavo-olivacea, *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 35; *Jard. Contr. Orn.* 1849, p. 88, pl. 16. fig. 1; *Blyth, Cat. B. Mus. A. S. B.* p. 171.

Ianthia superciliaris, *Jerd. B. Ind.* ii. p. 148.

Nemura superciliaris, *Gray, Hand-l. B.* i. p. 222, no. 3190.

Adult male (type of *T. superciliaris*). General colour above dark slaty blue, the long feathers on the side of the rump tipped with yellowish buff; wing-coverts yellowish brown, the innermost of all these series slaty blue like the back; greater coverts and quills blackish brown, edged with yellowish brown, the inner secondaries with slaty blue; tail dark slaty blue, blackish on the inner web; side of crown, white, forming a very broad white eyebrow, extending from the base of the bill to the sides of the nape; feathers in front of and above the eye as well as the sides of face black, the latter slightly washed with slaty grey; under surface of body orange-rufous, whiter on the middle of the abdomen; a faint indication of a malar line of white; under wing-coverts and axillaries like the breast; quills brown below, fulvescent along the edge of the inner web; "beak brownish; feet reddish grey, the nails grey; iris brown" (*Jerdon*). Total length 5 inches, culmen 0·5, wing 3·1, tail 2·5, tarsus 1·1.

The type being in bad condition, the measurements are taken from a Darjiling specimen.

Adult female. Different from the male. General colour above

* Messrs. David and Oustalet state that they have examined one of Sonnerat's specimens still existing in the Paris Museum, and that they find it identical with another given them by Dr. Jerdon as *Tarsiger superciliaris*.

ochraceous brown, the lesser and median wing-coverts like the back; greater coverts and quills dark brown, externally edged with reddish brown, with pale yellowish tips to the greater coverts; tail olive-brown, dusky brown on the inner webs; lores yellowish, extending backwards and forming a whitish eyebrow, not so distinct as in the male; sides of face olive-brown, with fulvous shaft-lines; under surface of body deep ochraceous brown, the chin whitish; under wing-coverts and axillaries rather more yellowish; quills dull brown below, fulvescent along the edge of the inner web. Total length 5·3 inches, culmen 0·45, wing 2·85, tail 2·4, tarsus 1·1.

Hab. Eastern Himalayas, extending into the mountains of Western Szechuen.

a. ♂ ad.; b, c, d. ♀ ad. sk. Nepal. B. H. Hodgson, Esq. [P].
e. ♂ ad. sk. Darjiling. J. Fotheringham, Esq. [C.].

6. *Tarsiger chrysæus*.

Tarsiger chrysæus, *Hodgs. Icon. incl., Passeres*, pl. 80, nos. 408 & 409; *id. in. Gray's Zool. Misc.* p. 83; *id. P. Z. S.* 1845, p. 28; *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 35; *Blyth, Cat. B. Mus. A. S. B.* p. 169; *Jard. Contr. Orn.* 1850, p. 119, pl. 13; *Bp. Consp. i.* p. 300; *Horsf. & Moore, Cat. B. Mus. E.I. Co. ii.* p. 310; *Jerd. B. Ind. ii.* p. 149; *Swinh. P. Z. S.* 1871, p. 359; *Hume, Nests & Eggs Ind. B.* p. 325; *David & Oustalet, Ois. Chine*, p. 233, pl. 29.

Sericornis (?) *chrysea*, *Blyth, J. A. S. B.* xiv. p. 549.

Nemura chrysæa, *Gray, Gen. B.* i. p. 181; *id. Hand-l. B.* i. p. 222, no. 3189.

Adult male. General colour above orange-yellow, the scapulars and feathers of the lower back with olive-brown tips; crown of head, hind neck, and mantle olive-brown, inclining to darker and more rufous-olive on the head, the feathers of the lower back with broad black tips; lesser and median wing-coverts black, with mesial streaks of golden yellow near the tips of the feathers; greater series and quills black, externally edged with orange-brown, the innermost greater coverts entirely orange-yellow; two centre tail-feathers black, orange-yellow only at base, all the others orange-yellow with a broad black band at the tip; a narrow frontal line, lores, feathers round the eye, and ear-coverts black; a narrow superciliary streak over the eye orange-yellow; entire under surface of body orange-yellow, some of the feathers on the sides of the breast edged with black; thighs olive on the outer margin; under wing-coverts yellow; quills brown, yellowish buff along the inner webs; "bill dusky above, yellowish fleshy beneath; iris dark brown" (*Jerdon*). Total length 5 inches, culmen 0·6, wing 2·8, tail 2·25, tarsus 1·3.

Adult female. General colour above olive, lighter and inclining to olive-yellow on the rump; least wing-coverts like the back; remainder of the wing-coverts and quills brown, edged with olive; centre tail-feathers olive-brown, the rest of the tail dull yellow with an olive-brown band at the tips of the feathers; lores and eyebrow yellowish olive; round the eye a ring of yellowish feathers; ear-

coverts olive-brown, with whitish shaft-streaks; cheeks and under surface of body deep ochraceous yellow, the bottom of the abdomen whitish. Total length 5 inches, culmen 0.6, wing 2.6, tail 2, tarsus 1.2.

Hab. Himalaya Mountains, ranging eastwards into Moupin in Western China.

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|--|-----------------|--------------------------------|
| <i>a, b.</i> ♂ ♀ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>c, d, e.</i> ♂; <i>f, g, h.</i> ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |

7. *Tarsiger stellatus*.

Le Gobe-mouche étoilé, Levaill. Ois. d'Afr. iv. p. 28, pl. 157; Sundev. Crit. om Levaill. p. 42.

Muscicapa stellata, Vieill. N. Dict. d'Hist. Nat. xxi. p. 468; Gray, Gen. B. i. p. 163; Layard, B. S. Afr. p. 148.

Pogonocichla stellata, Cab. Arch. f. Naturg. 1847, p. 314; Bp. Consp. i. p. 300; Grill, Zool. Anteckn. p. 27; Sharpe, Cat. Afr. B. p. 43, no. 401; Barratt, Ibis, 1876, p. 203; Ayres, l. c. p. 428; Sharpe, ed. Layard's B. S. Afr. p. 342.

Tarsiger cucullatus, Blyth, Ibis, 1867, p. 16 (ex Gould, MS.).

Nemura stellata, Gray, Hand-l. B. i. p. 223, no. 3191.

Adult male. Above yellowish olive, the upper tail-coverts bright yellow; least wing-coverts olive like the back, the rest of the coverts and quills blackish, externally blue-grey, inclining to silvery grey on the outermost greater coverts; tail yellow, with a broad black band at the tip, the outer feather externally blackish for the terminal half of the outer web, the two centre tail-feathers entirely black; head dull blue, including the sides of head and entire throat; lores and feathers round the eye more dusky; above the eye a large spot of silvery white, a spot of which is also apparent on the lower throat; rest of under surface of body orange-yellow, including the under wing- and tail-coverts; thighs and outermost of the under wing-coverts light grey with whitish margins; "bill black; tarsi and feet dusky pale; iris dusky" (*T. Ayres*). Total length 6.2 inches, culmen 0.5, wing 4.55, tail 2.75, tarsus 1.1.

Adult female. Similar to the male.

Young birds are similar to the adult, but are duller and more olive-green above, the head being of the same colour as the back; all the grey on the wing overshadowed with olive; under surface of body olive-yellow, greener on the throat; sides of face olive, the ear-coverts with yellow shaft-lines; lores dusky yellow; round the eye a ring of yellow feathers.

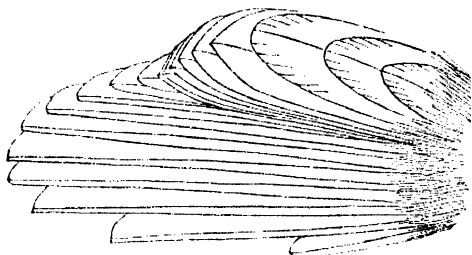
Hab. South Africa.

| | | |
|--------------------------|--|--------------------------|
| <i>a, b.</i> vix ad. sk. | South Africa. | J. Gould, Esq. |
| <i>c, d.</i> Ad. sk. | Peri Bush, near King-williamstown. | H. Trevelyan, Esq. [P.]. |
| <i>e.</i> Juv. sk. | Near East London (<i>F. A. Barratt</i>). | R. B. Sharpe, Esq. |
| <i>f, g.</i> ♂ ad. sk. | Eland's Post, June 10, 1870 (<i>T. C. Atmore</i>). | R. B. Sharpe, Esq. |

| | | |
|---------------------|------------|--------------------------|
| <i>h.</i> ♀ ad. sk. | Lydenburg. | F. A. Barratt, Esq. [C.] |
| <i>i.</i> Ad. sk. | Lydenburg. | F. A. Barratt, Esq. [C.] |
| <i>k.</i> ♂ ad. sk. | Macamac. | F. A. Barratt, Esq. [C.] |
| <i>l.</i> Ad. sk. | Macamac. | J. H. Gurney, Esq. [P.] |

30. LIOPTILUS.

Type.

Lioptilus, Cabanis, Mus. Hein. i. p. 88 (1850) L. nigricapillus.Bill and wing of *Lioptilus nigricapillus*.*Range.* Confined to South Africa.*Key to the Species.*

- a.* Head black; back olive-brown; sides of neck, sides of face, throat, and breast grey *nigricapillus*, p. 262.
- b.* Head ashy olive like the back; throat white; breast and abdomen greenish ashy *olivascens*, p. 263.

1. *Lioptilus nigricapillus*.

Le Merle à calotte noire, *Levaill. Ois. d'Afr. iii. p. 48, pl. 108; Sundev. Crit. om Levaill. p. 36.*

Turdus nigricapillus, Vieill. N. Dict. d'Hist. Nat. xx. p. 256; Gray, Gen. B. i. p. 219.

Lioptilus nigricapillus, Cab. Mus. Hein. i. p. 88; Bp. Consp. i. p. 332; Gray, Hand-l. B. i. p. 314, no. 4691; Sharpe, Cat. Afr. B. p. 43; Barratt, Ibis, 1876, p. 203; Ayres, t. c. p. 428; Sharpe, ed. Layard's B. S. Afr. p. 343, no. 331.

Pycnonotus nigricapillus, Layard, B. S. Afr. p. 140.

Adult male. Upper surface warm brown, the wing-coverts and quills ashy brown, washed with the same brown as the back externally, the primaries narrowly margined with whitish; tail dark brown, margined on both webs of the feathers with olivaceous; crown of head and nape black, the latter slightly shaded with grey; lores and feathers round the eye black; cheeks and ear-coverts silvery grey, the sides of the neck, throat, and breast rather darker grey; the chin blackish; centre of the breast and abdomen white; sides of body and thighs fulvous-brown; under tail-coverts light brown, edged broadly with buffy white; under wing-coverts yel-

lowish buff; quills ashy brown below, the inner webs white from their base upwards; "bill and legs flesh-colour; iris ashy hazel" (*T. C. Atmore*). Total length 6·6 inches, culmen 0·53, wing 3·2, tail 3·15, tarsus 0·95.

Hab. South Africa.

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|--------------|--|--------------------------|
| a. ♂ ad. sk. | Eland's Post, S.E. Africa, June 10, 1870 (<i>T. C. Atmore</i>). | R. B. Sharpe, Esq. |
| b. Ad. sk. | Natal. | R. B. Sharpe, Esq. |
| c. Ad. sk. | Macamac, July 3, 1874 (<i>T. Ayres</i>). | J. H. Gurney, Esq. [P.]. |

2. *Lioptilus olivascens*.

Parisoma olivascens, *Cass. Pr. Philad. Acad.* 1859, p. 52; *Hartl. J. f. O.* 1861, p. 161; *Gray, Hand-l. B. i.* p. 236, no. 3415.
Ægithalopsis olivascens, *Heine, J. f. O.* 1859, p. 131.

Adult. Entire upper parts ashy olive; wings and tail olive-brown; quills externally edged with paler yellowish ashy, and internally with white; throat and under tail-coverts white; breast and abdomen greenish ashy, paler on the latter; under wing-coverts white; upper mandible bluish corneous, under mandible yellowish white; legs pale-coloured. Total length $5\frac{1}{2}$ inches, wing $2\frac{3}{4}$, tail $2\frac{1}{2}$. (*Cassin, l. c.*)

Hab. Gaboon.

Obs. I have placed the present species in the genus *Lioptilus* solely from Mr. Cassin's description, as the type still remains unique in Philadelphia. He describes it as of the same general form as *Parisoma melanurum* (= *P. plumbeum*, *Hartl.*), but with the bill stronger, and the colours of the plumage entirely different. This thicker bill and the pale-coloured legs most likely belong to a *Lioptilus*, as the South-African species (*L. nigricapillus*) differs from a *Parisoma* chiefly in these two characteristics; indeed it is doubtful whether *Lioptilus* should be considered more than a thick-billed *Parisoma*.

31. OREICOLA.

Type.

- | | |
|--|-------------------------|
| <i>Oreicola</i> , <i>Bp. C. R.</i> xxxviii. p. 6 (1854) | <i>O. melanoleuca</i> . |
| <i>Rhodophila</i> , <i>Jerd. B. Ind.</i> ii. p. 128 (1863) | <i>O. jerdoni</i> . |



Bill of *Oreicola ferrea*.

Range. From India, ranging through the Burmese countries to Southern China, and extending to the island of Timor.

*Key to the Species.**Males.*

- a. No white on the wing; black above, white below *jerdoni*, p. 264.
- b. With a large white patch on the wing, formed of the inner coverts of all three series.
 - a'. Upper surface glossy black, as also the tail; a few white-tipped feathers on the sides of the hinder crown *melanoleuca*, p. 265.
 - b'. Upper surface black with grey edgings; rump grey with black centres; outer tail-feathers edged with white *ferrea*, p. 266.

Females.

- a. Tail-feathers dark brown; no light eyebrow... *jerdoni*, p. 264.
- b. Tail-feathers rufous; upper tail-coverts rufous.
 - a'. A whitish eyebrow; under surface of body white, washed with creamy buff on the breast *melanoleuca*, p. 265.
 - b'. A very light fulvous eyebrow; under surface of body ashy fulvous-brown, the throat whiter *ferrea*, p. 266.

1. *Oreicola jerdoni*.

Rhodophila melanoleuca, *Jerd. B. Ind.* ii. p. 128, iii. p. 872 (*nec V.*); *Gould, B. Asia*, part xviii.

Oreicola jerdoni, *Blyth, Ibis*, 1867, p. 14; *Beavan, t. c.* p. 449; *Blanf. Ibis*, 1870, p. 466; *Blyth & Wald. B. Burm.* p. 101.

Saxicola jerdoni, *Gray, Hand-l. B.* i. p. 227, no. 3273.

Adult male. General colour above glossy black, the rump-feathers slightly varied with subterminal white markings; upper tail-coverts glossy black; tail black; least and median wing-coverts like the back, the greater coverts and the quills black, with glossy black margins; sides of face entirely glossy black; entire under surface of body white; thighs black; under wing-coverts and axillaries black, with broad white edgings; "bill and legs black; iris dark brown" (*Jerdon*). Total length 5.4 inches, culmen 0.5, wing 2.55, tail 2.6, tarsus 0.8.

Adult female. Different from the male. General colour above brown, slightly mottled on the head with blackish centres, the lower back inclining to rufous, the upper tail-coverts rufous; tail-feathers brown; least wing-coverts like the back; median and greater series as well as the quills dark brown, edged with the same brown as the back; feathers in front of the eye mottled with ashy fulvous tips, the bases dark brown; sides of face and cheeks dark brown; entire under surface of body creamy white, washed with fulvous on the flanks; thighs brown; under wing-coverts brown; axillaries ashy whitish tinged with fulvous, the bases dusky grey; quills dark brown below, with whitish-brown edges to the inner webs. Total length 5.2 inches, culmen 0.5, wing 2.5, tail 2.5, tarsus 0.8.

Hab. Eastern Bengal, ranging into Burmah.

a, b. ♂ ♀ ad. sk.

Upper India.

T. C. Jerdon, Esq. [P.]
(Types of species.)2. *Oreicola melanoleuca*.*Oenanthe melanoleuca*, Vieill. *N. Dict. d'Hist. Nat.* xxi. p. 435.*Saxicola melanoleuca*, Bp. *Consp.* i. p. 304 (ex Müller, *MS. in Mus. Lugd.*); Wall. *P. Z. S.* 1863, p. 485; Finsch, *Neu-Guinea*, p. 167; Gray, *Hand-l. B. i.* p. 227, no. 3269.*Saxicola luctuosa*, Bp. *Consp.* i. p. 304 (ex Müller, *MS. in Mus. Lugd.*); Wall. *P. Z. S.* 1863, p. 485; Finsch, *Neu-Guinea*, p. 167; Gray, *Hand-l. B. i.* p. 227, no. 3270.*Sylvia nycthemera*, Temm. in *Mus. Lugd.*, unde*Lalage nycthemera*, Bp. *Consp.* i. p. 355; Wall. *P. Z. S.* 1863, p. 485; Hartl. *J. f. O.* 1865, p. 165; Finsch, *Neu-Guinea*, p. 172; Salvad. *Ucc. Born.* p. 148.*Oreicola melanoleuca*, Bp. *C. R.* xxxviii. p. 6.*Oreicola luctuosa*, Bp. *C. R.* xxxviii. p. 6.*Campephaga nycthemera*, Gray, *Hand-l. B. i.* p. 339, no. 5127.

Adult male. General colour above glossy black, the bases to the rump-feathers greyish; tail black; wings also black, with a large white patch, formed of all the innermost series of coverts (lesser, median, and greater) together with the white bases to the innermost secondaries; sides of face and cheeks glossy black like the head; on each side of the hinder crown a few white-tipped feathers; entire under surface of body white, including the outer aspect of the thighs, which are black behind; axillaries and under wing-coverts white, those near the edge of the wing black; quills blackish below, the secondaries conspicuously white towards the base of their inner webs. Total length 6·8 inches, culmen 0·55, wing 2·9, tail 2·7, tarsus 0·95.

Adult female. General colour above sandy brown, inclining to more rufous-brown towards the rump, some of the feathers with longitudinal centres of darker brown; upper tail-coverts rufous; two centre tail-feathers brown edged with rufous, the other feathers light rufous on the inner webs, darker brown on the outer, with an external edge of rufous; wings dark brown, all the feathers with rufous edgings, the innermost of the wing-coverts edged with ashy grey or hoary white, forming an indistinct patch; lores and a distinct eyebrow buffy white, as also a ring of feathers round the eye; ear-coverts and feathers below the eye dark brown, with narrow rufous shaft-lines; under surface of body buffy whitish, the breast washed with cream-colour, as also the sides of the body; axillaries and under wing-coverts white with dusky bases; quills dull brown below, with rufous edges along the inner web. Total length 6·1 inches, culmen 0·55, wing 2·75, tail 2·5, tarsus 0·85.

Hab. Island of Timor.

| | | |
|---------------------------|---------------|---------------------------|
| a. Ad. st. | Timor. | Purchased. |
| b, c. ♂ ad. sk. | E. Timor. | A. R. Wallace, Esq. [C.]. |
| d, e. ♂ ad.; f. ♀ ad. sk. | Semao, Timor. | A. R. Wallace, Esq. [C.]. |

3. *Oreicola ferrea* *.

Rubecola ferrea, *Hodgs. in Gray's Zool. Misc.* p. 83.

Saxicola ferrea, *Hodgs. Icon. ined., Passeres*, pl. 97 (nos. 416, 417); *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 71, et p. 153 (*descr. orig.*).

Pratincola ferrea, *Blyth, J. A. S. B.* xvi. p. 129; *id. Cat. B. Mus. A. S. B.* p. 170; *Bp. Consp.* i. p. 305; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 286; *Jerd. B. Ind.* ii. p. 127; *Gray, Hand-l. B.* i. p. 228, no. 3286; *Swinh. P. Z. S.* 1871, p. 360; *Hume & Henders. Lahore to Yark.* p. 205, pl. 12; *Cock & Marsh. Str. F.* 1873, p. 355; *Hume, S. F.* 1874, p. 478; *Blyth & Wald. B. Burm.* p. 101; *Hume, Nests and Eggs Ind. B.* p. 318; *id. Str. F.* 1875, p. 134; *Brooks, t. c.* p. 238; *David & Oust. Ois. de la Chine*, p. 168; *Inglis, Str. F.* 1877, p. 36.

Adult male. General colour above black, with grey edgings to the feathers, the lower back and rump entirely grey; the head black, the grey edgings to the feathers nearly obsolete; wings black, some of the coverts slightly edged with grey, the inner median coverts tipped with white, the inner greater coverts white, forming a large patch on the wing; upper tail-coverts black, edged with grey; tail-feathers black, distinctly edged with hoary grey, the outer feathers slightly tipped with the latter colour, the outermost feather externally hoary as well as a broad ending to the inner web; from the base of the nostrils a broad white line extending over the eye and forming a conspicuous eyebrow; feathers in front of and round the eye and ear-coverts black, as well as the cheeks; under surface of body white, the sides more or less mixed with ashy grey; chin-spot black; under wing-coverts white with blackish bases; quills dusky blackish below, white along the inner webs; "bill black; feet brown-black; iris brown" (*Jerdon*). Total length 5 inches, culmen 0.5, wing 2.7, tail 2.6, tarsus 0.9.

In winter the whole aspect of the bird is grey with black centres, the grey edgings becoming worn off in the summer, many of the plumes also washed with rusty, the quills and wing-coverts distinctly edged with grey; below, the white under surface is more dingy, the feathers of the lower throat and breast edged with greyish, the flanks also washed with grey; the ashy-grey edgings and tips to the tail-feathers much broader and more distinct.

Adult female. General colour light brown, a little more rufescent on the rump; upper tail-coverts rufous; tail dark brown, the outer feathers externally rufous, the outermost lighter brown, the outer web and at the tip; fore part of the crown varied with dark brown centres to the feathers; forehead hoary whitish; eyebrow greyish white; feathers in front of and round the eye dark brown, as well as the ear-coverts, the latter with lighter shafts; cheeks and throat white; rest of under surface of body buffy white, more fulvous on the flanks; under wing-coverts buffy

* On the affinity of *O. ferrea* with *O. jerdoni*, see *Jerdon's 'Birds of India,'* iii. App. p. 872; and on its Muscipapine nature see *Hume, 'Lahore to Yarkand,'* p. 205, where a figure of the bill is given, to show the likeness to *Muscipapa*.

white; quills dark brown below, fulvescent along the inner webs. Total length 5·2 inches, culmen 0·55, wing 2·55, tail 2·45, tarsus 0·85.

Young. Brown, like the old female, but the upper surface mottled all over with longitudinal fulvous spots and streaks on the feathers, very large and distinct on the upper wing-coverts; greater coverts and quills edged with rufous; sides of face mottled, like the crown, with fulvous streaks; under surface of body fulvous, the feathers edged with dusky brown, producing a mottled appearance.

Hab. India and the Burmese countries, ranging eastwards into China.

| | | |
|---|---|------------------------------------|
| <i>a, b, c.</i> ♂; <i>d, e.</i> ♀ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>f.</i> Juv. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>g.</i> ♂ ad. sk. | Murree. | Capt. C. H. T. Marshall [P.]. |
| <i>h-l.</i> ♂ æstiv. sk. | Nepal. | B. H. Hodgson, Esq. |
| <i>m.</i> ♀ æstiv. sk. | Nepal. | B. H. Hodgson, Esq. |
| <i>n, o.</i> ♂; <i>p.</i> ♀ hiem. sk. | Nepal. | B. H. Hodgson, Esq. |
| <i>q-u.</i> Juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>v.</i> ♀ ad. sk. | Behar. | B. H. Hodgson, Esq. [P.]. |
| <i>w.</i> ♂ hiem. sk. | Bootan. | Secretary of State for India [P.]. |
| <i>x.</i> ♂ juv. sk. | Bootan Dooars, S.E. Himalayas, Aug. 1870. | W. T. Blanford Esq. [P.]. |

32. STENOSTIRA.

Stenostira, Cab. & Bp. in Bp. Consp. i. p. 316 (1850)
Empidivora, Reichenb. Syst. Av. Nat. pl. lxviii. (1850)

Type.
S. scita.
S. scita.



Bill of *Stenostira scita*.

Range. Confined to South Africa.

1. *Stenostira scita*.

Le Goube-mouches mignard, *Levaill. Ois. d'Afr. iv. pp. 14, 151.*

Muscicapa scita, Vieill. N. Dict. d'Hist. Nat. xxi. p. 474.

Muscicapa tenella, Licht. Verz. Vög. Kaffernl. p. 12.

Platystira longipes, Swains. Monogr. Flycatchers, p. 185, pl. 21; Layard, B. S. Afr. p. 143.

Platystira scita, Gray, Gen. B. i. p. 256; id. Hand-l. B. i. p. 330, no. 4950.

Stenostira scita, Cab. & Bp. Consp. i. p. 316; Sharpe, Ibis, 1873, p. 175.

Adult male. Above greyish, a little paler on the rump; wings

black; least wing-coverts greyish like the back, with a vertical line of white extending the whole length of the wing, beginning at the outer median coverts; tail black, the outermost feather white, the penultimate one white for its apical half, and the next one with a little less white towards the tip; a narrow superciliary line of white from the base of the forehead to the hinder ear-coverts; cheeks and ear-coverts black; a narrow cheek-stripe and chin white, the latter with a delicate blush of rose-colour; lower throat and chest greyish; lower breast, abdomen, and under tail-coverts white, with a beautiful blush of rosy colour on the former; under wing-coverts whitish, the outermost ones slightly shaded with grey; thighs black; bill and feet black; iris black. Total length 4·5 inches, culmen 0·5, wing 2·25, tail 2·3, tarsus 0·8.

Hab. The same as that of the genus.

- a. ♂ ad. sk. Mooi River, Transvaal, August 4, 1843 (*Wahlberg*). R. B. Sharpe, Esq.
 b. Ad. sk. Orange River (*T. C. Atmore*). R. B. Sharpe, Esq.
 c. Ad. sk. Potchefstroom, Transvaal, April 27, 1877 (*W. Lucas*). R. B. Sharpe, Esq. [P.]

33. PARISOMA.

Type.

Parisoma, *Swains. Faun. Bor.-Amer., Birds*, p. 490

(1831)

P. subcæruleum.

Ægithalopsis, *Heine, J. f. O.* 1859, p. 431 *P. subcæruleum*.

Range. Confined to Africa.

Key to the Species.

- a. Vent and under tail-coverts chestnut; throat white, with broad white streaks *subcæruleum*, p. 268.
 b. Vent and under tail-coverts pure white or fulvous, sometimes washed with brown, not chestnut.
 a'. General colour grey, lighter below, the abdomen whitish; throat and chest uniform grey, not streaked *plumbeum*, p. 269.
 b'. General colour more ashy grey and browner than the preceding; throat white like the abdomen; chest ashy grey, the lower throat and fore neck distinctly streaked with dusky brown *layardi*, p. 270.

1. *Parisoma subcæruleum*.

Le Grignot, *Levaill. Ois. d'Afr.* pl. 126; *Sunder. Crit. om Levaill.* p. 38. *Sylvia subcærulea*, *Vieill. N. Dict. d'Hist. Nat.* xi. p. 188 (*ex Levaill.*).

Parisoma rufiventer, *Swains. Classif. B.* ii. p. 247; *Layard, B. S. Afr.* p. 115.

Parisoma subcæruleum, *Gray, Gen. B.* i. p. 194; *Bp. Consp.* i. p. 259; *Strickl. & Slater, Contr. Orn.* 1852, p. 149; *Gray, Hand-l. B.* i. p. 235, no. 3411; *Sharpe, Cat. Afr. B.* p. 41, no. 390; *Ayres, Ibis*,

1871, p. 154; *Gurney, in Anderss. B. Dam. Ld.* p. 77; *Buckley, Ibis*, 1874, p. 375; *Sharpe, ed. Layard's B. S. Afr.* p. 332, no. 318; *Bocage, Orn. Angola*, p. 204.

Thamnobia subcærulea, *Grill, Zool. Anteckn.* p. 10.

Ægithalopsis subcærulea, *Heine, J. f. O.* 1859, p. 431.

Adult male. General colour above grey; wing-coverts brown, with grey edgings; primary-coverts and coverts of the thumb black with white margins; quills brown, externally washed with grey, the primaries externally edged with white; tail black, the lateral feathers tipped with white, increasing in extent towards the outermost, where the white tip occupies the apical third of the feather and extends quite halfway up the outer web; lores whitish; feathers in front of the eye dusky; ear-coverts grey, streaked with white; cheeks and entire throat and fore neck greyish white, broadly streaked with black; rest of under surface of body white, the sides of the body grey; vent and under tail-coverts tawny chestnut; thighs greyish white, slightly washed with rufous; under wing-coverts white, as also the edge of the wing, the bases to the feathers black; lower surface of quills ashy grey, with white margins to the inner webs; "bill black; feet black; iris white" (*Buckley*); iris bluish white (*T. C. Atmore*); iris yellowish white (*Andersson*). Total length 5·6 inches, culmen 0·45, wing 2·75, tail 2·75, tarsus 0·85.

Adult female. Similar to the male, but rather duller grey and less broadly streaked with black on the throat. Total length 5·6 inches, wing 2·65, tail 2·65, tarsus 0·85.

Hab. South Africa.

| | | |
|-------------------|---|-----------------------------|
| a. Ad. sk. | Kingwilliamstown. | Lieut. H. Trevelyan [P.]. |
| b, c. ♂ ♀ ad. sk. | Kingwilliamstown, May 5, 1877 (<i>C. Newby</i>). | Lieut. H. Trevelyan [P.]. |
| d. ♂ ad. sk. | Eland's Post (<i>T. C. Atmore</i>). | R. B. Sharpe, Esq. |
| e. ♂ ad. sk. | Transvaal (<i>T. Ayres</i>). | R. B. Sharpe, Esq. |
| f. ♀ ad. sk. | Damara Land. | C. J. Andersson, Esq. [C.]. |
| g. ♀ ad. sk. | Elephant Vley, Damara Land, Sept. 1, 1859 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. |
| h. ♂ ad. sk. | Otjimbingue, June 17, 1866 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. |

2. *Parisoma plumbeum*.

Stenostira plumbea, *Hartl. J. f. O.* 1858, p. 41, 1861, p. 169; *Finsch & Hartl. Vög. Ostaf. p.* 303, note; *Heugl. Orn. N.O.-Afr.* p. 432, tab. 17.

Parisoma melanurum, *Cass. Pr. Philad. Acad.* 1859, p. 51; *Hartl. J. f. O.* 1861, p. 161; *Gray, Hand-l. B. i. p.* 236, no. 3414.

Ægithalopsis melanura, *Heine, J. f. O.* 1859, p. 131.

Muscicapa melanura (nec Cass.), *Heugl. J. f. O.* 1863, p. 274; *Finsch & Hartl. Vög. Ostaf. p.* 303, note; *Gray, Hand-l. B. i. p.* 330, no. 4831.

Platystira plumbea, *Gray, Hand-l. B. i. p.* 330, no. 4951.

Parisoma plumbeum, *Sharpe, Cat. Afr. B. p.* 41, no. 389.

Adult. General colour blue-grey, the forehead slightly streaked with brown shaft-lines; least wing-coverts grey like the back, the greater coverts and bastard wing blackish externally, edged with ashy whitish; primary-coverts blackish, externally dull grey; quills blackish, the primaries margined with dull grey or greyish white, the secondaries with purer white; tail black, the lateral feathers tipped with white, more broadly towards the outermost, which is almost entirely white, excepting the extreme base, which is obliquely brown, the penultimate feathers also white for nearly the whole of the outer web; lores whitish, extending to the fore part of the eye, round which is a circle of whitish feathers; sides of face and of neck uniform bluish grey, the fore part of the cheeks whiter; chin white; rest of under surface of body dull bluish grey, the centre of the abdomen and under tail-coverts white; thighs dusky grey; under wing-coverts white, as also the inner web of the quills; bill black in skin, the lower mandible browner. Total length 5·7 inches, culmen 0·45, wing 2·7, tail 2·6, tarsus 0·7.

Obs. I have never seen an example of the species from Gaboon (*P. melanurum*, Cass.), but I cannot distinguish it by the description from Senegambian examples. One of the latter specimens in the Museum has the under tail-coverts fulvous, as is the case in Cassin's description.

Hab. Western and North-eastern Africa.

| | | |
|------------|------------------------|--------------------|
| a. Ad. sk. | River Gambia. | R. B. Sharpe, Esq. |
| b. Ad. sk. | Casamance, Senegambia. | M. Verreaux. |
| c. Ad. st. | Casamance, Senegambia. | M. Verreaux. |

3. *Parisoma layardi*.

Parisoma layardi, *Hartlaub, Ibis*, 1862, p. 147; *Layard, B. S. Afr.* p. 115, no. 214; *Gray, Hand-l. B. i.* p. 236, no. 3413; *Gurney in Anderss. B. Dam. Ld.* p. 78; *Sharpe, ed. Layard's B. S. Afr.* p. 334, no. 319.

Stenostira schistacea, *Heugl. Orn. N.O.-Afr.* p. 433, note.

Adult male. General colour above rather dark grey; the least wing-coverts uniform with the back; rest of the wing-coverts and quills blackish externally, washed with grey; the primary-coverts and primaries margined with white on the outer web rather conspicuously; tail black, the outermost feather obliquely white for the terminal third and along the outer web, the next feathers slightly white at the tip; lores dull whitish; feathers in front of the eye dusky blackish; ear-coverts uniform grey, duller than the sides of the neck, which are also grey; chin and throat white, the latter distinctly streaked with black; centre of the body white, the flanks and sides of the body grey; under tail-coverts whitish, with dusky-brown bases to the feathers; thighs brown; under wing-coverts dusky grey, the edge of the wing white; quills ashy brown below, with white edgings along the inner webs. Total length 5 inches, culmen 0·45, wing 2·55, tail 2·3, tarsus 0·8.

Adult female. Similar to the male. Total length 5 inches, wing 2·5, tail 2·35, tarsus 0·8.

Young. Similar to the adult, but duller brown; the throat whiter, with less distinct blackish streaks.

Hab. South Africa.

| | | |
|--------------|--|--------------------|
| a. ♀ ad. sk. | Colesberg (<i>A. F. Ortlepp</i>). | R. B. Sharpe, Esq. |
| b. ♂ ad. sk. | Daviep, River Swakop, Dec. 27, 1860 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. |
| c. ♀ ad. sk. | Swakop River, Oct. 26, 1860 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. |
| d. ♂ ad. sk. | Near Elephant River, Little Namaqua Land, Aug. 8, 1862 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. |

34. AETHOMYIAS.

Entomophila (pt.), *G. R. Gray*.

Sericornis (pt.), *Salvadori*.

Range. Confined to New Guinea.

1. *Aethomyias spilodera*.

Entomophila? *spilodera*, *Gray*, *P. Z. S.* 1859, p. 155; *Finsch*, *Neu-Guinea*, p. 164; *Gray*, *Hand-l. B.* i. p. 154, no. 2000.

Sericornis spilodera, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 343.

Adult male. General colour above dark olive-brown, the head blacker, the ear-coverts rather more greyish black; the nape also washed slightly with blackish brown; wing-coverts like the back, the greater coverts and quills margined with olive, the latter more plainly towards the ends of the feathers, the margins to the primaries lighter; upper tail-coverts and tail-feathers dark rufous-brown, more dusky on the inner webs; throat dull white, mottled with ovate spots of black in the centre of the feathers, the cheeks also marked in this manner; remainder of under surface whitish, with a wash of yellow on the breast and belly, especially distinct on the under tail-coverts; the sides of the upper breast ashy, washed with olive; thighs dusky; under wing-coverts dusky brown; quills brown below, lighter along the inner webs; bill yellowish. Total length 3·7 inches, culmen 0·5, wing 2·35, tail 1·7, tarsus 0·75. (*Mus. Lugd.*)

Another specimen, marked female, has the throat more dusky, the black spots being more extended, the white edgings less developed. Total length 3·9 inches, culmen 0·5, wing 2·35, tail 1·75, tarsus 0·7. (*Mus. Lugd.*)

A young male, as I determine it to be, has the head uniform dark olive like the back; below, the throat shows no black spots at all, but is dull whitish, slightly washed with olive-yellow; the rest of the under surface also is duller than in the adult and has a stronger tinge of olive. (*Mus. Lugd.*)

The series examined in the Leiden Museum agrees with the type in the British Museum.

Hab. N.W. New Guinea.

a. ♀ ad. sk. Dorey, New Guinea.

A. R. Wallace, Esq. [C.]
(Type of species.)

35. CHLOROPETA.

Type.

Chloropeta, *Smith, Ill. Zool. S. Afr. Aves*, pl. 112 (1847). *C. natalensis*.



Bill and leg of *Chloropeta natalensis*.

Range. South Africa, ranging into the Congo district.

Key to the Species.

- a.* Third primary equalling the sixth in length: dull yellowish olive, underneath dull yellow; sides of neck, thighs, rump, and vent tinged with buffish colour; head rather dusky above, with a dull yellowish superciliary streak *natalensis*, p. 272.
- b.* Third primary equalling the seventh in length: bright yellowish green; underneath very bright yellow; streak above the lores yellow; sides of neck uniform with the back *icterina*, p. 273.

1. *Chloropeta natalensis*.

Chloropeta natalensis, *Smith, Ill. Zool. S. Afr. Aves*, pl. 112. fig. 2; *Sundev. (Efr. K. Vet.-Akad. Förh. Stockh.* 1850, p. 105; *Reichen. Corresp. Afrik. Gesellsch. Berlin*, 1875, p. 177, no. 5; *Barratt, Ibis*, 1876, p. 202; *Ayres, t. c.* p. 428; *Sharpe, ed. Layard's B. S. Afr.* p. 335.

Hypolais natalensis, *Bp. Consp.* i. p. 289.

Sylvia natalensis, *Layard, B. S. Afr.* p. 102, no. 188; *Gray, Hand-l. B. i.* p. 214, no. 3026.

Adult male. General colour above dull olive-yellow, yellower on the back, all the feathers being brown towards the base; the head browner than the back, the yellow margins not so broad; wing-coverts and quills very dark brown, all margined with dull olive-yellow; tail rather lighter brown, the feathers margined with olive-yellow, paler and inclining to whitish at the tip of the outermost; feathers in front of the eye bright lemon-yellow; ear-coverts olive, with narrow shaft-lines of bright yellow; cheeks, sides of neck, and entire under surface of body, including the thighs and under wing- and tail-coverts, bright yellow, the flanks slightly washed with olive-brown; "bill dusky, the under mandible yellow; tarsi and feet dusky; iris hazel" (*Ayres*). Total length 4·9 inches, culmen 0·55, wing 2·4, tail 2·35, tarsus 0·5.

Adult female. Similar to the male, but not quite so bright. Total length 5 inches, wing 2·3, tail 2·3, tarsus 0·85. (*Mus. G. E. Shelley.*)

Hab. Natal.

| | | |
|-----------------|------------------------------|---------------------------|
| a. Ad. sk. | Natal. | Dr. Gueinzus [C.]. |
| b. Ad. sk. | Natal. | T. Ayres, Esq. [C.]. |
| c, d. ♂ ad. sk. | Lydenburg. | F. A. Barratt, Esq. [C.]. |
| e. ♂ ad. sk. | Macamac (<i>T. Ayres</i>). | J. H. Gurney, Esq. [P.]. |

2. *Chloropeta icterina*.

Chloropeta icterina, *Sundev. Öfvs. K. Vet.-Akad. Förh. Stockh.* 1850, p. 105; *Sharpe, ed. Layard's B. S. Afr.* p. 336.

Adult. Bright yellowish green; underneath very bright yellow; a yellowish streak above the lores; thigh-plumes very bright yellow. Total length 5½ inches, wing 2·45, tail 2·4, tarsus 0·85. (*Sundevall, l. c.*)

Obs. The above is a translation of the original description; the specific characters are given in the "key."

36. HYPOTHYMIS*.

Type.

Hypothymis, *Boie, Isis*, 1826, p. 973 *H. occipitalis*.
Myiagra, *pt., auct. recent. plur.*



Head of *Hypothymis azurea*.

Range. From India and Ceylon through the Burmese countries to South China; Malayan peninsula and islands as far as Celebes and the Sula group.

Key to the Species.

- a. Forehead and crown uniform azure-blue, of a velvety texture.
- a'. With a black collar across the fore neck and a large black nape-patch.
- a". Belly white, as also the under wing-coverts. *azurea* ♂, p. 274.

* The following species has been placed in this genus, but has been shown by Oustalet to be *Piezorhynchus dichrous* (Gray), a species described further on:—

HYPOTHYMIS MANADENSIS.

Muscirapa manadensis, *Quoy & Gaim. Voy. de l'Astrol. Zool.* i. p. 176, pl. 3. fig. 3.

Myiagra menadensis, *Gray, P. Z. S.* 1860, p. 352; *id. Hand-l. B.* i. p. 328, no. 4921.

Hypothymis manadensis, *Bp. C. R.* xxxviii. p. 653; *Walden, Tr. Z. S.* viii. p. 66.

- b". Belly greyish purple, as also the under wing-coverts, overspreading the white .. *occipitalis* ♂, p. 275.
 b'. With no black collar across the fore neck; nape-spot very indistinct; frontal line and chin black *ceylonensis* ♂, p. 277.
 c'. With no black collar across the fore neck and no nape-spot; no black on the frontal line or chin..... *puella* ♂, p. 277.
 c". Above and below of the same light azure-blue *puella*, p. 277.
 d". Above greyish cobalt; under surface light silvery blue *rowleyi*, p. 278.
 b. Forehead and eyebrow silvery cobalt, brighter than the rest of the crown and forming an eyebrow *superciliaris* ♂, p. 278.

1. *Hypothymis azurea*.

- Gobe-mouches bleu des Philippines, *Daubent. Pl. Enl.* 666. fig. 1.
 Le petit Azur, *Montb. Hist. Nat. Ois.* iv. p. 534.
Muscicapa azurea, *Bodd. Tabl. Pl. Enl.* p. 41 (*ex Daubent.*).
 Azure Flycatcher, *Lath. Gen. Syn.* ii. pt. 1, p. 339.
Muscicapa cærulea, *Gm. S. N.* i. p. 943; *Jerd. Madr. Journ.* xi. p. 14.
Muscicapa cæruleocephala, *Sykes, P. Z. S.* 1832, p. 85.
 ? *Myiagra torquata*, *Swains. Monogr. Flycatchers*, p. 208.
Myiagra cærulea, *Swains. Monogr. Flycatchers*, p. 208; *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 93; *Blyth, Cat. B. Mus. A. S. B.* p. 204.
Myiagra azurea, *Gray, Gen. B.* i. p. 261; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 138; *Jerd. B. Ind.* i. p. 450; *Pelz. Reis. Novara, Vög.* pp. 78, 161 (pt.); *Gray, Hand-l. B.* i. p. 328, no. 4930; *Godw.-Aust. J. A. S. B.* xxxix. p. 100; *Swinh. P. Z. S.* 1871, p. 381; *Ball, Str. F.* 1873, p. 68; *Hume, Str. F.* 1874, pp. 217, 474; *Ball, t. c.* p. 404; *Hume, Nests & Eggs Ind. B.* p. 198; *id. Str. F.* 1875, p. 103; *Fairb. Str. F.* 1876, p. 257; *Armstr. t. c.* p. 322; *Hume, t. c.* p. 395; *David & Oustal. Ois. Chine*, p. 114; *Sharpe, Tr. Linn. Soc. n. s. i.* p. 325.
Tchitrea cæruleocephala, *Swinh. Ibis*, 1860, p. 57.
Hypothymis azurea, *Blyth & Wuhl. B. Burm.* p. 131.

Adult male. General colour above azure-blue, rather greyer on the rump; wing-coverts like the back, the quills dusky blackish externally, edged with dull azure-blue, the inner secondaries entirely of the latter colour; tail-feathers dusky blackish, dull blue on the outer webs, with a narrow line of white at the tips, these white tips sometimes nearly obsolete; crown of head and sides of head lighter azure-blue, the feathers with a velvety texture; a frontal line and a square patch on the nape black; chin black; sides of face and throat and fore neck light azure-blue, with a band of black across the latter; rest of under surface white, washed with greyish blue on the sides of the body and thighs; under wing-coverts white, slightly shaded with grey; quills blackish below, broadly edged with white along the inner web; "bill dark blue, edges and tip black; inside of mouth yellow; legs plumbeous, claws horny; iris dark.

brown; edges of eyelids blue, eyelids plumbeous" (*Oates*). Total length 5·8 inches, culmen 0·55, wing 2·8, tail 2·85, tarsus 0·7.

Adult female. Different from the male. General colour above light earthy brown, the wing-coverts and scapulars slightly washed with pale azure; quills light brown, externally edged with ashy, which has a pale azuro shade; tail-feathers brown, with a blue shade on the edges of the feathers; head azure-blue, as also the throat and fore neck, the blue brighter on the crown and round the eye; chest greyer; rest of under surface of body white, as also the under wing-coverts and inner lining of the quills. Total length 6·5 inches, wing 2·95, tail 3, tarsus 0·7.

Obs. The female bird above described is from Matheran, and seems large. A male from the same place has the wing 2·75, the tail 2·85 inches. The Pegu bird is more like the Malayan *H. occipitalis*, but has scarcely as much blue shade over the white belly as in typical examples; it is difficult to decide from a single bird, and Mr. Hume, who has had a large series before him, pronounces Pegu specimens to be identical with Indian.

Hab. India generally, ranging through the Burmese countries to Pegu and Tenasserim.

| | | |
|-----------------------------|---------------------------------|------------------------------|
| a. Ad. sk. | India. | Purchased. |
| b. Ad. sk. | Calcutta. | Capt. J. Biddulph [C.]. |
| c, d. ♂ ♀ ad. sk. | Matheran, Bombay, Jan. 1872. | Major J. Hayes Lloyd [C.]. |
| e, f. ♂; g, h, i. ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| k. ♂ ad. sk. | Mahabaleshwar Hills. | Colonel Sturt [P.]. |
| l, m. ♂ ♀ ad. sk. | Tenasserim. | J. C. D. Packman, Esq. [P.]. |
| n. ♂ ad. sk. | Bassein, Pegu. | W. T. Blanford, Esq. [P.]. |
| o, p, q. ♂ ad. sk. | Saigon, Cochin China. | M. E. Pierre [P.]. |

2. *Hypothymis occipitalis*.

L'Azur à calotte et à collier noir, *Levaill. Ois. d'Afr.* iv. p. 11, pl. 153.

Muscicapa cærulea (nec Gm.). *Raffl. Tr. Linn. Soc.* xiii. p. 312; *Kittl. Kupf. Vög.* p. 7, Taf. 9. fig. 1.

Hypothymis cærulea (nec Gm.), *Boie, Isis*, 1826, p. 273, et 1828, p. 318 (ex *Levaill.*); *Bp. Consp.* i. p. 320; *Cab. Mus. Hein. Th.* i. p. 56.

Muscicapa occipitalis, *Vigors, P. Z. S.* 1831, p. 97.

Myiagra azurea (nec Bodd.), *Moore, P. Z. S.* 1854, p. 271; *Petz. Reis. Nov., Vög.* p. 78 (pt.).

Myiagra cærulea, *Wallace, P. Z. S.* 1863, p. 485.

Myiagra tytleri, *Beavan, Ibis*, 1867, p. 324; *Gray, Hand-l. B.* i. p. 328, no. 4928; *Hume, Str. F.* 1874, p. 217.

Hypothymis azurea (nec Bodd.), *Walden, Ibis*, 1872, p. 102; *Salvad. Ucc. Born.* p. 133; *Walden, Tr. Z. S.* ix. p. 182; *Oates, Str. F.* 1877, p. 149; *Sharpe, Ibis*, 1877, p. 18; *id. Tr. Linn. Soc. n. s.* i. p. 325; *Tweeddale, P. Z. S.* 1877, pp. 693, 760, 825, et 1878, p. 284.

Adult male. Above rich deep azure-blue, brighter on the head, where the feathers are of a velvety texture; a frontal line, chin, and

a nuchal patch black; wing-coverts like the back; quills and tail-feathers blackish, externally washed with blue; sides of face and entire throat rich azure-blue, with a black collar across the fore neck; rest of under surface greyish purple, overlying the dull white on the breast, abdomen, and under tail-coverts; thighs purplish; under wing-coverts greyish purple overlying the white like the flanks; quills black below, ashy along the inner web; "bill blackish blue; iris dark brown" (*Everett*)*. Total length 5·8 inches, culmen 0·5, wing 2·7, tail 2·6, tarsus 0·6.

Adult female. Differs from the male as does the female of *H. azurea*: i. e. it has the back brown, with the head dull azure, the black nape-spot being absent. It is of a darker brown than the female of *H. azurea*, and has the whitish abdomen overspread with a shade of bluish grey.

Obs. It will be a matter of opinion whether this is really a distinct species, or whether it should be considered merely a race of *H. azurea*. Specimens from the same locality vary considerably as regards the white on the abdomen; some of them have this part blue, but paler than the breast. Those which exhibit this character in the most marked degree are the birds from the Andamans—*Hypothymis tytlteri* (Beavan); but on this point see Mr. Hume's careful observations (S. F. 1874, p. 217). He finds that the majority of the Andaman birds are different from the Indian, but that occasionally they show more or less of an approach to the latter. This is exactly my experience with regard to the Indo-Malayan individuals; and certainly those from Flores are whiter below than usual; they also occasionally want the nape-spot and præpectoral collar.

I may here add a word as to my reason for applying the name of *azurea* to the Indian bird instead of to the Philippine, as *Muscicapa azurea*, Bodd., is founded on the "Gobe-mouches bleu des Philippines" of Daubenton's plate. As the white belly is the character by which the two species are distinguished, and as this is shown clearly in the plate, I have adopted it, believing that the locality assigned is erroneous. The description mentions a slight shade of blue on the underparts; but this is also seen in the Indian bird. Those ornithologists who prefer the correctness of the locality to that of the drawing, must adopt the name of *Hypothymis ceruleocephala* (Sykes) for the Indian species.

Hab. Andaman and Nicobar Islands, Malayan peninsula, Java, Sumatra, Borneo, Philippine Islands, Formosa.

a. ♂ ad. sk. Port Blair, S. Andamans, July 9, R. B. Sharpe, Esq. [P].
1873 (*Capt. Wimberley*).

b. ♂ ad. sk. Malacca. A. R. Wallace, Esq. [C].

* The above soft parts are from a Bornean skin. Mr. Everett procured four specimens in the island of Luzon, and gives the following notes (*cf.* Tweeddale, P. Z. S. 1877, p. 693):—*Male.* Iris chocolate-brown; bill blue, tip black; interior of gape pale yellow-green; legs lead-blue; nails black. *Female.* Iris dark chocolate-brown; bill and nails black; legs dark grey.

| | | |
|---|---------------------|---------------------------|
| <i>c, d.</i> ♂; <i>e.</i> ♀ ad. sk. | Kessang, Malacca. | M. A. Bouvier. |
| <i>f.</i> ♂ imm. [<i>g</i> ♀ ad.] sk. | E. Java. | A. R. Wallace, Esq. [C.]. |
| <i>h.</i> ♂ ad. | | |
| <i>i, k.</i> Ad. sk. | N.W. Borneo. | Hugh Low, Esq. [C.]. |
| <i>l.</i> Ad. sk. | Island of Daat. | Governor Ussher [C.]. |
| <i>m.</i> ♂ ad. sk. | Bintulu, W. Borneo. | H. Everett, Esq. [C.]. |
| <i>n.</i> ♂ ad. sk. | Sarawak. | A. R. Wallace, Esq. [C.]. |
| <i>o.</i> ♂ ad. sk. | Sarawak. | Henry Everett, Esq. [C.]. |
| <i>p.</i> Ad. sk. | Island of Basilan. | Prof. J. B. Steere [C.]. |
| <i>q, r, s.</i> ♂; <i>t, u.</i> ♀ ad. sk. | Flores. | A. R. Wallace, Esq. [C.]. |
| <i>v.</i> ♀ ad. sk. | Lombok. | A. R. Wallace, Esq. [C.]. |
| <i>w.</i> ♂ ad. sk. | Formosa, Feb. 1866. | R. Swinhoe, Esq. [C.]. |
| <i>x.</i> ♀ ad. sk. | Formosa, Mar. 1866. | R. Swinhoe, Esq. [C.]. |

3. *Hypothymis ceylonensis*.

Myiagra azurea, *Holdswe.* *P. Z. S.* 1872, p. 440 (*nec* *Rodd.*).

Similar to *H. azurea* of India, but having the black nape-spot less distinct and the black collar on the fore neck entirely absent; "bill pale blue; legs blue; iris deep brown" (*Legge, MS.*). Total length 5·8 inches, culmen 0·55, wing 2·8, tail 2·5, tarsus 0·7.

Hab. Ceylon.

| | | |
|---------------------|------------------------|---------------------------|
| <i>a.</i> ♀ ad. sk. | Ceylon, Oct. 29, 1870. | Capt. Vincent Legge [P.]. |
| <i>b.</i> ♂ ad. sk. | Kandy hills, Ceylon. | A. Whyte, Esq. [C.]. |

4. *Hypothymis puella*.

Myiagra puella, *Wallace, P. Z. S.* 1862, p. 430; *Gray, Hand-l. B. i.* p. 340, no. 4931.

Hypothymis puella, *Walden, Tr. Z. S.* vii. p. 66, pl. 7. fig. 2; *Salvad. Ann. Mus. Civ. Genov.* vii. p. 656.

Adult male. General colour above and below very light azure-blue, a little paler on the abdomen; head and nape, lores and feathers round the eye, cheeks, and fore neck brighter blue; wing-coverts like the back; quills and tail-feathers ashy brown, externally dull azure-blue; under wing-coverts like the breast, but paler and somewhat whitish; "bill blue, the tip blackish; feet bluish" (*Wallace*). Total length 6·8 inches, culmen 0·5, wing 2·9, tail 2·9, tarsus 0·65.

Obs. Sula-Island specimens also want the black nuchal patch; they are a little deeper azure-blue than the Celebes birds, approaching more to the tints of the Indo-Malayan *H. occipitalis*.

Hab. Celebes and Sula Islands.

| | | |
|------------------------|--------------------|---------------------------|
| <i>a.</i> ♂ ad. sk. | Menado, Celebes. | A. R. Wallace, Esq. [C.]. |
| <i>b, c.</i> ♂ ad. sk. | Makassar, Celebes. | A. R. Wallace, Esq. [C.]. |
| <i>d, e.</i> Ad. sk. | Sula Islands. | A. R. Wallace, Esq. [C.]. |
| <i>f.</i> Ad. sk. | Celebes. | Purchased. |

5. *Hypothymis rowleyi*.

Zeocephus rowleyi, Meyer, in *Rowley's Orn. Misc.* vol. iii. p. 163.

Adult (Great Sangi Island; type of species). General colour above greyish cobalt-blue, more grey on the rump; lesser and median wing-coverts like the back, the greater series and the quills light bluish grey, edged externally with the same greyish cobalt as the back of the quills, internally dusky blackish; tail greyish blue, dusky blackish on the inner webs; sides of face more dusky greyish blue than the head; cheeks and under surface of body light silvery bluish, darker on the throat, and more dusky blue on the sides of the breast; under wing-coverts and axillaries like the breast. Total length 6·5 inches, culmen 0·65, wing 3·65, tail 3·6, tarsus 0·95. (*Mus. Dresden.*)

Hab. Sangi Islands.

6. *Hypothymis superciliaris*.

Hypothymis superciliaris, Sharpe, *Tr. Linn. Soc.* new series, i. p. 326.

Adult male (type of species). General colour above greyish blue or verditer, the head rather deeper blue, the frontal plumes silvery cobalt, extending backwards over each eye and forming an eyebrow; lores blackish; sides of face dull blue; throat and chest greyish blue, lighter than the back, shading into bluish white on the rest of the under surface, including the under wing- and tail-coverts; thighs blue; wings above brighter cobalt; quills black, externally bright cobalt, the inner secondaries almost entirely of this colour with black shafts; tail-feathers black, externally bright cobalt, the centre ones almost entirely of the latter colour; bill black; legs dark brown; "iris dark brown" (*Steere*). Total length 6·2 inches, culmen 0·6, wing 3·1, tail 3, tarsus 0·65.

Hab. Island of Basilan, Philippines.

37. **CYANOMYIAS.**

Hypothymis (pt.), Tweeddale.

Range. Philippine Islands.

1. *Cyanomyias cœlestis*.

Hypothymis cœlestis, Tweeddale, *Ann. & Mag. Nat. Hist.* (4) xx. p. 536; *id. P. Z. S.* 1878, p. 109, pl. 7. fig. 1.

Adult female (type of species). General colour above lazuline blue, brighter on the rump and upper tail-coverts; wing-coverts brighter cobalt, the greater series and the quills dusky brown externally washed with lazuline blue, brighter on the margins of the coverts; tail-feathers ashy brown, azure-blue on the outer webs; head brighter and more cobalt-blue, with a slight tinge of purple on the crown, the feathers scaly in appearance, with two long tufts of

pointed feathers springing from the hinder part of the crown ; sides of face and lores turquoise-blue ; cheeks and entire throat rich azure-blue ; abdomen and under tail-coverts greyish white, the breast and sides of the body washed with pale lazuline blue, slightly more purple on the former ; thighs washed with deeper blue ; under wing-coverts and axillaries ashy, washed with bluish on the edges, the edge of the wing deep blue ; " bill blue, tipped and margined with black ; interior of gape yellow-green ; orbital ring light green ; legs grey-blue ; iris dark brown " (*A. Everett*). Total length 5·7 inches, culmen 0·45, wing 2·95, tail 2·8, tarsus 0·6. (*Mus. Marquis of Tweeddale.*)

Hab. Island of Dinagat, Philippines.

38. CHELIDORHYNX.

Type.

Chelidorhynx, *Hodgs. P. Z. S.* 1845, p. 32 *C. hypoxantha.*



Bill of *Chelidorhynx hypoxantha*.

Range. Eastern Himalayas ; Khasia hills ; Tonghoo hills in Burmah.

1. *Chelidorhynx hypoxantha*.

Rhipidura hypoxantha, *Blyth, J. A. S. B.* xii. p. 935 (1843) ; *id. Cat. B. Mus. A. S. B.* p. 205, no. 1239 ; *Gray, Gen. B.* i. p. 259 ; *id. Hand-l. B.* i. p. 330, no. 5000.

Chelidorhynx hypoxantha, *Hodgs. Drawings*, no. 386 (*Passeres*, no. 218) ; *App.* 115 in *Brit. Mus. Coll.* ; *id. in Gray's Zool. Misc.* p. 84 ; *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 49 ; *Bp. Consp.* i. p. 322 ; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 147 ; *Jerd. B. Ind.* i. p. 455, no. 294 ; *Godwin-Austen, J. A. S. B.* xxxix. p. 100 ; *Blyth & Wald. B. Burma*, p. 132 ; *Brooks, Str. F.* 1875, p. 234 ; *Hume, Nests and Eggs Ind. B.* p. 204.

Chelidorhynx chrysoschistos, *Hodgs. P. Z. S.* 1845, p. 32.

Adult. General colour above ashy olive, rather more yellowish on the crown ; forehead and a broad eyebrow bright yellow ; a narrow frontal line, lores, feathers round the eye, and ear-coverts black, the last slightly washed with olive ; cheeks and entire under surface of body bright yellow, including the thighs and under tail-coverts ; under wing-coverts whitish, washed with yellow ; wings brown, the coverts edged with the ashy olive of the back, the quills also narrowly margined with olive, almost obsolete on the primaries, the inner secondaries with conspicuous white bases to the inner webs ; tail-feathers dusky brown with pure white shafts, all but the centre feathers tipped with white, which runs a little way up the tip of the inner web ; " bill black ; legs reddish ; iris pale brown " (*Jerdon*) ;

Muscitode à tête bleue, *Hombr. et Jacq. Voy. Pôle Sud, Atlas*, pl. 20. fig. 2.

Tchitrea? *cæruleocephala* (*lapsu*), *Gray, Gen. B. i.* p. 260.

Philentoma cyanocephala, *Jacq. et Pucher. Voy. Pôle Sud, texte, Zool.* iii. p. 79.

Todopsis cæruleocephala, *Bp. C. R.* xxxviii. p. 652.

Todopsis cyanocephala, *Gray, P. Z. S.* 1858, p. 177; *id. P. Z. S.* 1859, p. 156, et 1861, p. 434; *id. Cat. Mamm. &c. New Guinea*, p. 27; *Finsch, Neu-Guinea*, p. 168; *Selater, P. Z. S.* 1873, p. 606; *Meyer, Sitz. k. Akad. Wien*, lxi. pp. 74, 78; *Salvad. Ann. Mus. Civic. Genov.* viii. p. 398, x. p. 148; *Gould, B. New Guinea*, part viii.

Tchitrea cyanocephala, *Gray, Hand-l. B. i.* p. 334, no. 5031.

Adult male. Crown of head bright turquoise-blue, extending in a narrow band down the nape and hind neck; lores and a narrow frontal band, feathers above the eye, sides of face and of neck, and hinder neck velvety black; middle of the back and scapulars bright cobalt, as also the lesser wing-coverts; greater and primary-coverts black, externally edged with purple; quills black, the secondaries externally bright cobalt, the innermost purplish blue; entire back from below the mantle velvety black, with a slight purple gloss; upper tail-coverts deep purple; tail-feathers black, dull blue on the outer webs, the two centre feathers entirely shaded blue; cheeks and entire under surface of body dark purple; under wing-coverts black; bill, feet, and iris black (*D'Albertis*). Total length 6 inches, culmen 0.65, wing 2.35, tail 2.4, tarsus 1.

Adult female. General colour above chestnut-brown, the wing-coverts like the back; quills dark brown, externally edged with chestnut; crown of head bright turquoise-blue, extending in a band down the nape; a narrow frontal line, lores, sides of face, and sides of the hinder crown purplish black; cheeks and throat dull cobalt; lower throat, breast, and centre of the body dull creamy white, the lower throat laterally cobalt; sides of body, flanks, thighs, and under tail-coverts chestnut, glossed with lilac on the sides of the upper breast; under wing-coverts chestnut, the outer lower coverts buffy white, as also the edge of the wing; lower surface of quills dark brown, edged with rufous along the inner web; tail light indigo, waved across with dusky lines under certain lights, all the feathers rather broadly tipped with white; bill black; feet dark brown in skin. Total length 5.2 inches, culmen 0.65, wing 2.25, tail 2.35, tarsus 0.95.

Hab. New Guinea.

| | | |
|----------------------|--------------|--------------------------|
| <i>a, b.</i> ♂ ♀ sk. | New Guinea. | A. R. Wallace, Esq. [C.] |
| <i>c, d.</i> ♂ sk. | Dorey, 1858. | A. R. Wallace, Esq. [C.] |
| <i>e.</i> ♀ juv. sk. | New Guinea. | A. R. Wallace, Esq. [C.] |

2. *Todopsis bonapartii*.

Todopsis cyanocephala, *Gray, P. Z. S.* 1858, p. 177, pl. 134 (*nec Q. et G.*).

Todopsis bonapartii, *P. Z. S.* 1859, p. 156, et 1861, p. 434; *Finsch, Neu-Guinea*, p. 168; *Meyer, Sitz. k. Akad. Wien*, lxi. p. 78;

Sharpe, Journ. Linn. Soc. xiii. pp. 316, 498; *Gould, B. New Guinea*, part viii.

Todopsis cæruleseens, *Rosenb. J. f. O.* 1864, p. 120.

Todopsis, sp., *Salvad. Ann. Mus. Civic. Genov.* ix. p. 25.

Tchitrea bonapartii, *Gray, Hand-l. B.* i. p. 334, no. 5032.

Adult male. Crown of head bright cobalt, of an enamelled texture, running in a narrow line down the nape; a narrow frontal line; lores, feathers above and below the eye, cheeks, ear-coverts, sides of neck, and hinder neck black (the latter washed with purple); mantle, scapulars, and lesser wing-coverts purplish cobalt; the greater series of coverts and inner secondaries black, externally edged with purple; primaries black, with scarcely any purple edgings; back velvety black, glossed with purple, the upper tail-coverts of the last-named colour; tail-feathers purplish black, inclining to duller black on the inner webs; entire under surface of body deep purple, much brighter on the breast and flanks; under wing-coverts black, glossed with purple. Total length 5·8 inches, culmen 0·65, wing 2·3, tail 2·5, tarsus 0·95.

Adult female. Crown of head cobalt, extending in a rather narrow line down the nape; a narrow frontal line, lores, sides of face, including a narrow eyebrow, and the sides of the hinder crown and nape purplish black; upper surface of body maroon-chestnut, as also the scapulars and wing-coverts, some of the outermost coverts of the thumb spotted with lilac; quills dark brown, externally edged with rufous like the back, the secondaries tipped with pale rufous; tail-feathers dull indigo, obscurely washed under certain lights and broadly tipped with white; entire throat purplish blue, descending onto the sides of the chest: centre of the fore neck, chest, and middle of the body white, the sides of the body light maroon-chestnut, including the thighs and under tail-coverts; the sides of the upper breast distinctly glossed with lilac; under wing-coverts very light rufous, paler on the lower series, a spot on the edge of the wing cobalt-blue; "bill black; feet dusky olive; iris dark" (*Wallace*). Total length 5·9 inches, culmen 0·65, wing 2·25, tail 2·65, tarsus 0·9.

Hab. Aru Islands.

| | | |
|--------------------------|--------------|---|
| <i>a, b.</i> ♂ ♀ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.] (Types of species.) |
| <i>c.</i> ♂ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.] |
| <i>d.</i> ♀ juv. sk. | Aru Islands. | A. R. Wallace, Esq. [C.] |

3. *Todopsis mysoriensis*.

Todopsis mysoriensis, *Meyer, Sitz. k. Akad. Wien*, lxix. p. 7; *Salvad. Ann. Mus. Civic. Genov.* ix. p. 25.

Adult male (Kordo, Misori, *Beccari*). General colour above glossy ultramarine-blue, the whole of the back except the mantle velvety black; upper tail-coverts deep ultramarine; tail dark blue; wings black, the inner secondaries externally dark blue, the innermost entirely of the latter colour; wing-coverts dark blue; crown rich

cobalt-blue, narrowing on the nape; a frontal band, sides of face, sides of crown, and nape black, extending in a narrow collar round the hind neck; entire under surface of body deep blue, brighter on sides of breast and flanks; under wing-coverts black, slightly shaded with blue; quills black, edged with ashy brown along the inner web. Total length 5 inches, culmen 0.65, wing 2.3, tail 2.5, tarsus 0.9. (*Mus. Civic. Genov.*)

Adult female (Kordo, Misori, Beccari). General colour above maroon-brown, the wings like the back; quills dark brown, externally like the back, the edges to the primaries somewhat paler; tail deep blue, tipped with white; crown of head ultramarine; forehead, sides of crown, sides of face, and neck black, slightly shaded with blue, more distinct on the hind neck; chin and upper throat deep blue; remainder of under surface white, the sides of the body, thighs, and under tail-coverts light maroon, shaded with lilac on the sides of the fore neck; under wing-coverts paler maroon; quills dull brown below, edged with light rufous on the inner web. Total length 5 inches, wing 2.2, tail 2.3, tarsus 0.9. (*Mus. Civic. Genov.*)

Hab. Island of Misori, in the Bay of Geelvink.

4. *Todopsis wallacii*.

Todopsis wallacii, Gray, *P. Z. S.* 1861, pp. 429, 434, pl. 43. fig. 2; *Finsch, New-Guinea*, p. 168; *Meyer, Sitz. k. Akad. Wien*, lxi. p. 81; *Gould, B. New Guinea*, part viii.

Tchitrea wallacii, Gray, *Hand-l. B.* i. p. 334, no. 5033.

Adult. Crown of head cobalt, each feather with a mesial streak of silvery blue, and all black at the bases; entire back orange-chestnut, duller on the rump and upper tail-coverts; wing-coverts brown, the least ones washed with orange-chestnut, the median and greater series broadly tipped with white, the latter series also externally edged with the same; quills brown, externally washed with olive-brown; tail brown, all the feathers tipped with white; lores and a ring of feathers round the eye white; below the front of the eye a blackish spot; sides of head above the ear-coverts black, as also the hinder part of the cheeks; ear-coverts elongated, pure white; throat and under surface of body pure white, including the under wing- and tail-coverts; thighs dusky blackish. Total length 4.4 inches, culmen 0.65, wing 1.95, tail 1.95, tarsus 0.8.

Obs. Two other specimens measure as follows:—

| | Total length. | Culmen. | Wing. | Tail. | Tarsus. |
|--|---------------|---------|-------|-------|---------|
| | in. | in. | in. | in. | in. |
| a. <i>Mysol</i> (<i>Wallace</i>) | 4.6 | 0.65 | 1.9 | 2.0 | 0.75 |
| b. <i>Mysol</i> (<i>Wallace</i>) | 4.5 | 0.65 | 1.9 | 1.85 | 0.75 |

As none of the above specimens agree exactly with Mr. Gray's measurements, I cannot say which is the typical one; but it is not the specimen marked c, which is the bird spoken of by Mr. Gray (*l. c.*) as the *young*. It differs from the bird described in having the throat buff instead of white, while, from its having smaller white tips to

the wing-coverts, less blue on the head, and less developed plumes on the ear-coverts, it may be an immature example.

Hab. Mysol.

| | | |
|--------------|--------|---------------------------|
| a. ♂ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.]. |
| b. Ad. sk. | Mysol. | A. R. Wallace, Esq. [C.]. |
| | | (Type of species.) |
| c. Jun. sk. | Mysol. | A. R. Wallace, Esq. [C.]. |

5. *Todopsis coronata*.

Todopsis coronata, Gould, *Birds of New Guinea*, part viii.

Adult. Similar to *T. wallacii*; but having the blue tips to the feathers of the crown smaller and rounded in shape instead of lanceolate, and having also a distinct black streak under the eye.

Hab. Aru Islands.

| | | |
|------------|------------------------------|---------------------|
| a. Ad. sk. | Aru Islands (Von Rosenberg). | Leyden Museum [P.]. |
|------------|------------------------------|---------------------|

40. CHENORHAMPHUS.

Todopsis, pt., Wallace et auct.

Type.

Chenorhamphus, Oustalet, *Bull. Assoc. Scient. de France*,
no. 533 (1878).....

C. grayi.

Range. Confined to North-western New Guinea.

1. *Chenorhamphus grayi*.

Todopsis grayi, Wallace, *P. Z. S.* 1862, p. 166; Finsch, *Neu-Guinea*, p. 168; Beccari, *Ann. Mus. Civic. Genov.* vii. p. 709; Meyer, *Sitzb. Akad. Wien*, lxxix. pp. 81, 212; Gould, *B. New Guinea*, part viii.

Myiagra glauca, Schlegel, *N. T. D.* iv. p. 41.

Todopsis sericyanea, Rosenb.

Tchitrea grayi, Gray, *Hand-l. B.* i. p. 334, no. 5034.

Tchitrea sericyanea, Gray, *Hand-l. B.* i. p. 334, no. 5035.

Chenorhamphus cyanopectus, Oustalet, *Bull. Assoc. Sci. France*, no. 533 (1878); *Salvad. Ibis*, 1879, p. 106.

Chenorhamphus grayi, Sharpe, *Notes Leyden Mus.* vol. i. no. 10, p. 31.

Adult (type of species). General colour above dull blue, brighter and more cobalt on the lower back and rump; wing-coverts brown, slightly washed externally with olive and tipped with dull verditer-blue; quills brown, broadly washed externally with olivaceous brown; tail-feathers brown, externally bluish, slightly washed with olivaceous on the margins and tipped with white; head dull greyish blue, inclining to ashy verditer above the eyes and on the sides of the crown; feathers in front of the eye blackish, as also a broad streak above the ear-coverts; round the eye a circlet of verditer feathers; ear-coverts verditer-blue, the feathers rather elongated and streaked with brighter cobalt; cheeks and throat silvery whitish with a bluish gloss, the rest of the under surface pale ashy blue, washed with a cobalt shade; under wing-coverts like the breast;

thighs olivaceous brown. Total length 5·7 inches, culmen 0·7, wing 2·55, tail 2·5, tarsus 1.

Hab. North-western New Guinea.

a. Ad. sk. Mountains of Sorong, N.W. A. R. Wallace, Esq. [C].
New Guinea. (Type of species.)

41. CLYTOMYIAS.

Type.

Clytomyias, *Sharpe, Notes Leyden Museum*, i. no. 10, p. 30. C. insignis.

Range. Confined to North-western New Guinea.

1. Clytomyias insignis.

Clytomyias insignis, *Sharpe, Notes Leyden Mus.* i. no. 10, p. 30.

Adult female (type of species). General colour above ashy with an olive wash, the upper tail-coverts tipped with ochraceous buff; tail-feathers brown, edged with ochraceous buff, the outer feathers with pale tips of the same colour; least wing-coverts ochraceous brown, the greater and median series dusky brown, with edgings of dull ochraceous buff, the quills dusky brown, externally margined with rufous; crown of head and nape chestnut, as well as the sides of the face, cheeks, and ear-coverts; lores slightly fulvescent; throat white, the rest of the under surface creamy buff, the flanks deeper fulvous, the sides of the upper breast darker and more olive; thighs chestnut; under tail-coverts dusky with chestnut tips; under wing-coverts fawn-colour; quills dusky brown below, with rufous lining to the inner webs. Total length 5·3 inches, culmen 0·6 long, 0·25 wide, wing 2·15, tail 2·7, tarsus 0·9. (*Mus. Lugd.*)

Hab. Tjobonda, Mount Arfak, Feb. 18, 1876 (*Bruijn*).

42. MALURUS.

Type.

Malurus, *Vieill. Analyse*, p. 44 (1816) M. cyaneus.



Bill of *Malurus amabilis*.

Range. Confined to Australia and New Guinea.

Key to the Species.

a. Head blue.

a'. With no red on the upper surface.

a''. Throat blue-black; upper tail-coverts black.

a'''. Smaller; wing 1·95 inch: head, ear-coverts, and mantle turquoisine blue, the mantle less extended than in the next species *cyaneus*, p. 286.

id. B. Austr. folio, iii. pl. 18; *Jard. & Selby, Ill. Orn.* ii. pl. 73. fig. 3; *Gray, Gen. B.* i. p. 165; *Bp. Consp.* i. p. 218; *Cab. Mus. Hein. Th.* i. p. 41; *Reichenb. Vög. Neuholl.* pp. 95, 290; *Gould, Handb. B. Austr.* i. p. 317; *Gray, Hand-l. B.* i. p. 204, no. 2876; *Diggle, Orn. Austr.* pl. 44. fig. 5; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 184.

Malurus superbus, *Pelz. Ibis*, 1870, p. 111.

Adult male. Crown of head light turquoisino blue; the lores, feathers in front of and above the eye, sides of crown, sides of neck, and hind neck velvety blue-black; mantle turquoisino blue of the same tint as the head; scapulars and remainder of back black; wings brown, the quills with lighter edges; upper tail-coverts velvety blue-black; tail-feathers black, washed with deep purple, the lateral ones slightly tipped with white; feathers below the eye and ear-coverts turquoise-blue; cheeks, throat, and breast velvety blue-black; centre of the body whitish, the sides of the body, flanks, and under tail-coverts fulvous-brown, the breast strongly washed with blue where it adjoins the blue-black throat and chest; thighs fulvous-brown; under wing-coverts and axillaries ochraceous buff; "bill black; feet brown; iris blackish brown" (*Gould*). Total length 4.5 inches, culmen 0.45, wing 1.95, tail 2.2, tarsus 0.9.

Female. Has the lores and a circle surrounding the eye reddish brown; upper surface, wings, and tail brown; under surface brownish white; bill reddish brown; feet fleshy brown. (*Gould*.)

Hab. Eastern Australia, from Port Denison southwards; South Australia.

| | | |
|--------------|------------------|----------------|
| a. ♂ ad. sk. | Australia. | |
| b. ♂ ad. st. | Australia. | Purchased. |
| c. ♂ ad. st. | New South Wales. | J. Gould, Esq. |

2. *Malurus gouldi*.

Malurus longicaudus, *Gould, P. Z. S.* 1837, p. 148 (*nec Temm. Man. d'Orn.* 1820, p. lxviii) *; *id. B. Austr. folio*, iii. pl. 19; *Gray, Gen. B.* i. p. 165; *Bp. Consp.* i. p. 218; *Reichenb. Vög. Neuholl.* pp. 96, 290; *Gould, Handb. B. Austr.* i. p. 320; *Gray, Hand-l. B.* i. p. 204, no. 2877; *Diggle, Orn. Austr.* pl. 44. fig. 6; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 184.

Adult male. Crown of head rich turquoise-blue of an enamelled texture; in front of the eye a black spot; sides of crown, sides of neck, and a broad collar round the hind neck velvety blue-black; the whole of the mantle and upper back enamelled turquoise-blue; scapulars, lower back, rump, and upper tail-coverts velvety blue-black; wings brown, the least wing-coverts and a few of the outer greater coverts externally greyish blue, the median coverts dull blue, the primaries with whity brown margins; tail-feathers dark ultramarine, with narrow white tips, becoming broader on the outer ones; feathers below the eye, ear-coverts, and a tuft of plumes on the hinder cheeks enamelled turquoise-blue like the head; cheeks,

* Cf. *Sundev. Ann. Nat. H.* xviii. p. 252.

throat, and breast velvety blue-black, the feathers on the sides of the upper breast tipped with turquoise-blue; centre of the body below whitish, the flanks, sides of body, and thighs fulvous-brown; under wing-coverts and axillaries fulvescent; quills brown below, narrowly edged with whitish along the inner web; "bill black; feet brown; iris blackish brown" (*Gould*). Total length 5.5 inches, culmen 0.45, wing 2.15, tail 2.65, tarsus 0.95.

Adult female. General colour above rusty brown, darker brown on the head; wings dark brown, the coverts and secondaries edged with the same brown as the back, the margins to the primaries much paler; tail-feathers dull blue, the outer ones slightly tipped with white; lores and feathers round the eye rufous; ear-coverts brown, washed with rufous; cheeks and under surface of body dull white, the flanks, thighs, and under tail-coverts fulvous-brown; under wing-coverts and axillaries yellowish buff, the small ones near the edge of the wing brown with whitish edges; quills brown below, fulvescent along the inner web; "bill reddish brown; feet fleshy brown" (*Gould*). Total length 5.1 inches, culmen 0.45, wing 2.2, tail 3, tarsus 1.

Hab. Tasmania and the islands of Bass's Straits (*Gould*). South Australia and Victoria (*Ramsay*).

| | | |
|----------------------------|-----------|----------------------------|
| a. Pull. st. | Tasmania. | |
| b, c. ♂ ad.; d. ♂ juv. st. | Tasmania. | J. Gould, Esq. [C.]. |
| e. ♀ ad. sk. | Tasmania. | J. Gould, Esq. [C.]. |
| f, g. ♀ ad. st. | Tasmania. | Ronald Gunn, Esq. [P.]. |
| h, i. ♂ ad. sk. | Tasmania. | Antarctic Expedition [C.]. |
| k, l. ♂ ad. sk. | Tasmania. | J. B. Jukes, Esq. [P.]. |

3. *Malurus melanotus*.

Malurus melanotus, *Gould*, *P. Z. S.* 1840, p. 163; *id.* *B. Austr. fol.* iii. pl. 20; *Gray*, *Gen. B.* i. p. 165; *Bp. Consp.* i. p. 218; *Reichenb. Vög. Neuholl.* pp. 98, 291; *Gould, Handb. B. Austr.* i. p. 322; *Gray, Hand-l. B.* i. p. 204, no. 2878; *Diggles, Orn. Austr.* pl. 44. fig. 4; *Ramsay, Tr. Linn. Soc. N. S. W.* ii. p. 184.

Adult male. Head and nape rich enamelled cobalt-blue, inclining to turquoise-blue at the base of the forehead and round the eye-feathers, in front of the latter black; sides of crown and sides of neck black, extending in a tolerably defined collar round the hinder neck, and separating the crown from the rest of the back, which is also rich enamelled cobalt-blue; lower back and rump velvety black; upper tail-coverts cobalt-blue, the longer ones deeper blue; tail-feathers dull blue, tipped with white, more broadly on the outer ones, which are also edged with white along their outer webs; scapulars and wing-coverts dull brown, edged with dingy greenish blue; quills brown, edged with a little brighter blue, some of the inner secondaries entirely blue; ear-coverts and tuft on the hinder cheek bright turquoise-blue, contrasting with the blue of the crown; throat and breast cobalt-blue, the feathers on the sides of the latter black with broad blue ends; flank-feathers blackish, with whitish shaft-lines and blue tips; centre of the body, thighs, and under tail-coverts dull whitish; under wing-coverts and axillaries fulvous;

quills dark brown below, light fulvous along the inner webs; "bill black; iris and legs blackish brown" (*Gould*). Total length 4·8 inches, culmen 0·4, wing 1·95, tail 2·4, tarsus 0·8.

Female. Has the lores and circle surrounding the eye reddish brown; the upper surface brown; under surface brownish white; wings brown; tail green, each feather slightly tipped with white; bill reddish brown; feet brown. (*Gould*.)

Hab. Australia: Interior Province, Victoria, and South Australia.

| | | |
|---------------------------|------------------------------|-------------------|
| <i>a, b, c.</i> ♂ ad. st. | Interior of South Australia. | Capt. Sturt [P.]. |
| <i>d.</i> ♂ ad. sk. | Interior of South Australia. | Capt. Sturt [P.]. |

4. *Malurus callainus*.

Malurus callainus, *Gould*, *P. Z. S.* 1867, p. 302; *id.* *B. Austr. folio*, pl. 23; *Gray*, *Hand-l. B.* i. p. 204, no. 2891; *Ramsay*, *Pr. Linn. Soc. N. S. W.* ii. p. 184.

Adult male (type of species). Crown of head most delicate turquoisine blue of a silvery lustre, a little more cobalt on the edges of the crown; mantle also turquoisine blue, separated from the blue crown by a black velvety collar round the hind neck, which extends down the sides of the neck and joins the hinder part of the eye above the ear-coverts; scapulars black, edged with cobalt-blue; wings light brown, the inner greater and median coverts washed with blue, the primaries narrowly edged with greenish blue; lower back and rump velvety black; upper tail-coverts turquoisine blue; tail blue, with transverse vermiculations under certain lights, all the feathers tipped with white; in front of the eye a black spot; feathers below the eye and ear-coverts pale silvery blue; cheeks and throat deep cobalt; below the latter a black collar, extending on the sides of the neck so as to join the black collar on the hind neck; rest of under surface of body lighter cobalt, the lower abdomen buffy white; thighs and lower flanks fulvous-brown; under wing-coverts and axillaries yellowish buff; quills brown below, fulvescent along the inner web. Total length 4·6 inches, culmen 0·4, wing 2, tail 2·3, tarsus 0·9. (*Mus. J. Gould*.)

Hab. Interior of South Australia.

5. *Malurus splendens*.

Saxicola splendens, *Quoy et Gaim. Voy. de l'Astr.*, *Zool.* i. p. 197, pl. 10. fig. 1.

Malurus pectoralis, *Gould*, *P. Z. S.* 1833, p. 106; *id.* *Syn. B. Austr.* part 1.

Malurus splendens, *Gould*, *B. Austr. folio*, iii. pl. 21; *Gray*, *Gen. B.* i. p. 165; *Bp. Consp.* i. p. 218; *Cab. Mus. Hein.* Th. i. p. 41; *Reichenb. Vög. Neuhol.* pp. 98, 291; *Gould*, *Handb. B. Austr.* i. p. 323; *Gray*, *Hand-l. B.* i. p. 204, no. 2879; *Diggles*, *Orn. Austr.* pl. 44. fig. 1; *Ramsay*, *Pr. Linn. Soc. N. S. W.* ii. p. 184.

Adult male. General colour above rich enamelled cobalt, the scapulars exactly like the back; wings brown, the coverts externally

rich blue or greenish blue, the quills edged with greenish blue; upper tail-coverts exactly like the back; tail-feathers bluish, washed with brighter blue on the edges, the feathers slightly tipped with bluish white; fore part of crown a little brighter and more turquoise-blue, as also the feathers over the eye; in front of the eye a black spot; sides of the crown black, extending from the hinder part of the eye above the ear-coverts, and joining a broad collar across the hinder neck, and occupying the sides of the neck; feathers below the eye and the entire ear-coverts bright turquoise-blue, contrasting with the head and back; entire under surface of body rich cobalt, a little deeper on the throat, with a broad black collar across the fore neck, running up onto the sides of the neck behind the ear-coverts; thighs washed with greenish blue; under wing-coverts fulvous, the edge of the wing blue; quills dusky brown below, ashy whitish along the inner web; "bill black; iris and feet blackish brown" - (Gould). Total length 4·6 inches, culmen 0·45, wing 2·05, tail 2·5, tarsus 0·95.

Adult female. Different from the male. Above ashy brown, rather lighter brown on the sides of the neck; quills dark brown, with whitish-brown edges; tail dull greenish blue, with narrow white tips; lores and feathers round the eye rufous; ear-coverts light brown, with narrow hair-like shaft-lines of whitish; under surface of body entirely white, the sides of the body ashy brown, as also the thighs; under wing-coverts and axillaries buff; quills brown below, fulvous along the inner web; "bill reddish brown" (Gould). Total length 4·8 inches, culmen 0·45, wing 2·05, tail 2·75, tarsus 0·95.

Hab. West Australia.

| | | |
|-------------------|--------------------------------|-----------------------|
| a. ♂ ad. st. | Australia. | Purchased. |
| b. ♂ ad. st. | ? South Australia. | Sir George Grey [P.]. |
| c, d. ♂ ♀ ad. st. | West Australia. | J. Gould, Esq. [C.]. |
| e. ♂ imm. st. | Canning's River, W. Australia. | J. Gould, Esq. [C.]. |

6. *Malurus leucopterus*.

Malurus leucopterus, Quoy et Gaim. *Voy. de l'Ukraine*, Zool. p. 108, pl. 23. fig. 2; *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 222; Gould, *B. Austr. folio*, iii. pl. 25; Gray, *Gen. B.* i. p. 65; *Bp. Consp.* i. p. 218; *Reichenb. Vög. Neuhol.* pp. 99, 291; Gould, *Handb. B. Austr. i.* p. 330; Gray, *Hand-l. B.* i. p. 204, no. 2886; Ramsay, *Fr. Linn. Soc. N. S. W.* ii. p. 184.

Amytis leucopterus, Lesson, *Traité*, p. 454.

Malurus cyanotus, Gould, *Handb. B. Austr. i.* p. 331.

Adult male. General colour above deep cobalt-blue from the forehead to the tail; scapulars, all the inner coverts and inner secondaries pure white; outer coverts brown, washed with blue; quills light brown, the primaries edged with greenish blue, the secondaries with brighter blue where they adjoin the inner white plumes; tail-feathers dark blue, the outer ones slightly shaded with lighter blue towards the base and tipped with white; sides of face, sides of neck, and entire under surface of body deep cobalt-blue

like the upper surface; thighs dusky brown; on the sides of the upper breast a small tuft of white plumes adjoining the white shoulder-spot; under wing-coverts dull white with dusky bases, the axillaries more fawn-coloured; quills brown below, whitish along the edge of the inner web; "bill black; feet brown; iris dark brown" (*Gould*). Total length 4·5 inches, culmen 0·35, wing 1·85, tail 2·5, tarsus 0·8.

Female. Crown of head and all the upper surface and flanks brown; throat and abdomen white, faintly washed with brown; external edges of the primaries and tail pale greenish blue; bill reddish brown. (*Gould*.)

Young male. Resembles the female, and gains the adult plumage by a moult; the white inner secondaries are washed with brown on their first appearance.

Hab. Australia: New South Wales; Interior Province; Victoria; West Australia.

| | | |
|---------------|------------------------------|-----------------------|
| a. Ad. sk. | Australia. | |
| b. ♂ juv. st. | Australia. | J. Gould, Esq. [C.]. |
| c. ♂ ad. st. | South Australia. | Sir George Grey [P.]. |
| d. ♂ ad. sk. | Interior of South Australia. | Capt. Sturt [P.]. |
| e. ♂ ad. st. | West Australia. | J. Gould, Esq. [C.]. |

7. *Malurus leuconotus*.

Malurus leuconotus, *Gould*, *P. Z. S.* 1865, p. 198; *id.* *Handb. B. Austr.* i. p. 332; *id.* *B. Austr. folio, Suppl.* pl. 24; *Gray, Hand-l. B.* i. p. 204, no. 2890; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. pp. 184, 206.

Adult male. General colour above and below rich cobalt-blue, the feathers of the mantle greyish white, tipped with blue; centre of the back white; scapulars, wing-coverts, and inner secondaries snow-white; the coverts near the edge of the wing brown, washed with blue; quills brown, washed with greyish blue on the outer webs; the innermost secondaries pure white, the outer ones brown on the inner web, white on the external one; tail-feathers blue, with a narrow edging of white on both webs; thighs fulvous-brown; under wing-coverts fulvous, with dusky bases; quills brown below, fulvous along the inner web; "bill black; feet brownish black" (*Gould*). Total length 4·5 inches, culmen 0·35, wing 1·9, tail 2·45, tarsus 0·8.

Hab. Interior of South Australia.

| | | |
|------------|------------|------------|
| a. Ad. sk. | Australia. | Purchased. |
|------------|------------|------------|

8. *Malurus elegans*.

Malurus elegans, *Gould*, *B. Austr. folio*, iii. pl. 22; *Gray, Gen. B.* i. p. 165; *Bp. Consp.* i. p. 218; *Cab. Mus. Hein.* Th. i. p. 41; *Reichenb. Vög. Neuhol.* pp. 100, 291; *Gould, Handb. B. Austr.* i. p. 324; *Gray, Hand-l. B.* i. p. 204, no. 2880; *Diggle, Orn. Austr.* pl. 44. fig. 2; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 184.

Malurus pulcherrimus (*nec Gould*), *Gray, Hand-l. B. i. p. 204*, no. 2881 (specimens examined).

Adult male. Crown of head dull blue, the forehead and sides of the crown silvery cobalt-blue, forming a broad eyebrow; round the hind neck a broad black collar, extending onto the sides of the neck and reaching to the hinder ear-coverts; mantle and upper back light silvery cobalt; scapulars chestnut-red, extending somewhat over the back, so as to separate the mantle from the back; wings brown, the primaries edged with whitish brown, the inner greater coverts and secondaries slightly edged with rufous, the wing-coverts darker, and the outer ones blackish; lower back and rump velvety black; upper tail-coverts and tail greyish blue, the outer feathers tipped narrowly with white; in front of the eye a three-cornered patch of black; feathers below the eye and ear-coverts turquoise-blue; cheeks, throat, and breast blue-black, with a slight purplish-blue shade on the sides of the breast; rest of under surface buffy white; the flanks, sides of body, thighs, and under tail-coverts fulvous-brown; under wing-coverts and axillaries tawny buff; quills dark brown below, fulvescent along the edge of the inner web; "bill black; iris and feet blackish brown" (*Gould*). Total length 5·5 inches, culmen 0·45, wing 1·95, tail 2·9, tarsus 1.

Adult female. General colour above rusty brown, the head and neck more greyish brown; wings brown, the coverts and quills dusky brown, edged with the same rusty brown as the back, the primaries with whitish brown; upper tail-coverts and tail dull greyish blue, with very small whitish tips to the outer tail-feathers; in front of the eye a triangular rufous spot; ear-coverts greyish brown, with nearly obsolete whitish shaft-lines; throat and centre of the body below dull whitish, washed with greyish brown on the sides of the neck and breast; the sides of the body, thighs, and under tail-coverts fulvous-brown; under wing-coverts and axillaries tawny buff; quills dark brown below, fulvescent along the edge of the inner web. Total length 5·5 inches, culmen 0·45, wing 1·9, tail 2·8, tarsus 0·85.

Hab. Western Australia.

| | | |
|--------------------------|------------------|-------------------------|
| <i>a, b.</i> ♂ ♀ ad. st. | Australia. | |
| <i>c, d.</i> ♂ ♀ ad. st. | Australia. | Purchased. |
| <i>e.</i> ♂ ad. st. | South Australia. | F. G. Moore, Esq. [P.]. |
| <i>f.</i> ♂ juv. sk. | West Australia. | J. Gould, Esq. [C.]. |

9. *Malurus lamberti*.

Superb Warbler, *Shaw, in White's Voy. N. S. Wales*, p. 256, fig. inf. (*nec Lath.*).

Sylvia cyanea, *Lewin, B. New Holl.* pl. xv. (*nec Lath.*).

Malurus lamberti, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 221; *Gould, Syn. B. Austr.* part i.; *id. B. Austr. folio*, iii. pl. 24; *Jard. & Selby, Ill. Orn.* ii. pl. 72, fig. 2; *Gray, Gen. B. i. p. 165*; *Bp. Consp. i. p. 218*; *Reichenb. Vög. Neuhol.* pp. 100, 291; *Gould, Handb. B. Austr.* i. p. 327; *Gray, Hand-l. B. i. p. 204*, no. 2882; *Digges,*

Orn. Austr. pl. 44. fig. 3; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 184.

Adult male (type of species). Head deep cobalt, more brilliant and inclining to turquoise on the forehead and eyebrow; sides of neck, as well as a collar round the hind neck, deep black; middle of the back fine cobalt-blue; scapulars bright chestnut, generally overshadowing the back so as to separate the blue mantle from the blue back; lower back and rump velvety black; upper tail-coverts and tail-feathers dull blue, tipped with white, which increases in extent towards the outermost; wings pale brown, the primaries with lighter brown edges, the innermost greater coverts and secondaries slightly edged with rufous; a three-cornered patch in front of the eye, cheeks, throat, and breast deep black; ear-coverts, feathers in front of and round the eye, and a tuft of plumes on the hinder cheeks bright turquoise-blue; feathers on the sides of the breast tipped with rich purplish blue; centre of body whitish; the flanks, thighs, and under tail-coverts sandy buff, as also the under wing-coverts, which are rather deeper fulvous; quills dark brown below, fulvescent along the edge of the inner web, the innermost secondaries margined with rufous on the inner web; "bill black; feet and iris dark brown" (*Gould*). Total length 4·8 inches, culmen 0·45, wing 1·95, tail 2·9, tarsus 0·9.

Female. Has the body dull brown, the throat and under surface much paler; tail-feathers as in the male, but less bright; bill and space round the eye reddish brown; feet brown. (*Gould*.)

Hab. The whole of Australia with the exception of the Cape-York peninsula, Port-Essington district, Tasmania, and Western Australia.

| | | |
|--------------------------|------------|--|
| <i>a, b.</i> ♂ ♀ ad. sk. | Australia. | Linnean Society [P.]. (Types of species.) |
| <i>c.</i> ♂ ad. sk. | Australia. | J. Gould, Esq. |
| <i>d, e.</i> ♂ ♀ ad. st. | Australia. | |

10. *Malurus amabilis*.

Malurus amabilis, *Gould, P. Z. S.* 1850, p. 277; *Macgill. Voy. 'Rattlesnake,'* ii. p. 356; *Gould, B. Austr. folio, Suppl.* pl. 21; *id. Handb. B. Austr.* i. p. 328; *Gray, Hand-l. B.* i. p. 204, no. 2884; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 184.

Malurus hypoleucus, *Gould, Ann. N. Hist.* (3) xix. p. 369; *id. B. Austr. folio, Suppl.* pl. 22; *Gray, Hand-l. B.* i. p. 204, no. 2889; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 207.

Adult male. Crown of head and nape rich cobalt, the feathers round the eye, ear-coverts, and a tuft of long plumes on the hinder part of the cheeks, extending onto the sides of the neck, brighter and more silvery cobalt, the feathers of an enamelled texture; hind neck and sides of neck velvety black, succeeded by a band of deep cobalt-blue across the upper part of the mantle; centre of the back and scapulars conspicuously chestnut-rufous; this is followed by a band of bright cyaneous across the lower back; the entire rump

velvety black; upper tail-coverts deep blue, tipped with black; tail-feathers deep blue, tipped with white, increasing in extent towards the outermost, which has the outer web also white; wings brown, the least series of coverts edged with blue-black, the inner median and greater coverts, as well as the secondaries, edged with rufous; feathers in front of the eye black, forming a triangular patch; cheeks, throat, and breast also velvety blue-black; rest of under surface white, slightly tinged with buff on the flanks; under wing-coverts and axillaries light fulvous; quills brown below, fulvescent along the edge of the inner web; "bill black; iris and feet dark brown" (*Gould*). Total length 4·5 inches, culmen 0·45, wing 1·9, tail 2·4, tarsus 0·85.

Adult female. General colour above deep blue, rather brighter over the eye; scapulars ashy brown, slightly washed with blue; wings brown, the least and median coverts with an almost imperceptible wash of blue, the bastard wing slightly tipped with white, the inner greater coverts edged with light brown, the secondaries with whitish brown, the innermost tipped with white; tail deep blue, tipped broadly with white, increasing on the outer feathers, which are also edged with white externally, the last feather being wholly white along the outer web; feathers in front of the eye and a ring round the latter whitish; ear-coverts cobalt, brighter than the head; cheeks and entire under surface of body white, washed with fulvous on the breast and sides of the body; thighs blackish, tipped with white; under wing-coverts fulvous; quills brown below, fulvous along the edge of the inner web. Total length 4·9 inches, culmen 0·45, wing 1·9, tail 2·4, tarsus 0·85.

Hab. Cape-York peninsula, extending as far south as Rockingham Bay; Gulf of Carpentaria.

a. ♂; b, c. ♀ ad. sk.

Cape York.

J. Gould, Esq.

d, e. ♂ ♀ ad. sk.

Cape York.

Purchased.

f. ♂ ad. sk.

Port Albany.

Purchased.

11. *Malurus pulcherrimus*.

Malurus pulcherrimus, *Gould*, *P. Z. S.* 1844, p. 106; *id.* *B. Austr.* folio, iii. pl. 23; *Gray*, *Gen. B.* i. p. 65; *Bp. Consp.* i. p. 218; *Reichenb. Vög. Neuhol.* pp. 79, 291; *Gould, Handb. B. Austr.* i. p. 327; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 184.

Malurus cæruleicapillus, "*Gould*" (*ubi?*); *Gray, Hand-l. B.* i. p. 204, no. 2883.

Adult male. Crown of head and nape rich purplish blue, the sides of the hinder crown, sides of neck, and a collar round the latter velvety black, separating the crown from the back, which is purplish blue, slightly more lilac than the head, but almost of the same tint as the latter; lower back and rump deep blue-black; upper tail-coverts and tail-feathers dull blue, the latter tipped with white, which increases in extent towards the outermost, which is also slightly edged with hoary white; wings light brown, with paler edges to the quills, the primaries edged narrowly with whitish brown,

some of the least wing-coverts and innermost secondaries slightly edged with rufous; scapulars bright chestnut-red, extending backwards over the back, so as to separate the blue mantle from the rest of the blue back; feathers in front of the eye, cheeks, throat, and breast deep black, the sides of the latter tipped with purplish blue; feathers round the eye, ear-coverts, and tuft on the cheeks bright cobalt, deeper in tint than the crown of the head; rest of under surface of body creamy white; the sides of body, flanks, thighs, and under tail-coverts fulvous; the under wing-coverts and axillaries fawn-buff; quills brown below, fulvescent along the inner web; "bill and feet black; irides dark brown" (*Gould*). Total length 4·7 inches, culmen 0·45, wing 1·9, tail 2·4, tarsus 0·85.

Hab. West Australia and interior of South Australia.

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|-----------------------|---------------------------|-------------------------|
| a. ♂ ad. sk. | Interior of S. Australia. | Capt. Sturt [P.]. |
| b. ♂; c, d. ♀ ad. st. | West Australia. | Purchased. |
| e, f. ♂ ♀ ad. sk. | N.W. Australia. | J. R. Elsey, Esq. [P.]. |
| g. ♂ ad. sk. | Nicholson River. | J. R. Elsey, Esq. [P.]. |
| h. ♂ ad. sk. | Australia. | Sir T. Mitchell [P.]. |

12. *Malurus coronatus*.

Malurus coronatus, *Gould*, P. Z. S. 1857, p. 221; *id.* B. Austr. folio, Suppl. pl. 20; *id.* Handb. B. Austr. i. p. 329; *Gray*, Hand-l. B. i. p. 204, no. 2885.

Adult male (type of species). General colour above sandy brown, inclining to yellowish brown on the rump; least wing-coverts ashy brown, the remainder dark brown externally, edged with sandy brown, the primaries with white brown; upper tail-coverts deep blue; tail-feathers greenish blue, tipped with white, the latter increasing towards the outermost feathers, the last one having the outer web entirely white; crown of head beautiful lilac, with a large spot of black in the centre; feathers in front of and above the eye, sides of face, ear-coverts, and a collar round the hind neck black; cheeks and under surface of body buffy white, inclining to sandy buff on the sides of the body and under wing-coverts; quills dusky brown below, fulvescent along the edge of the inner web; bill black; feet pale brown; "iris brown" (*Elsey*). Total length 6·5 inches, culmen 0·5, wing 2·25, tail 3·1, tarsus 0·95.

Adult female. General colour above sandy brown, the crown of the head a little more ashy brown; least wing-coverts slightly washed with ashy brown, the remainder dark brown internally, externally sandy brown like the back, the secondaries also outwardly sandy brown, the primaries margined with white brown; upper tail-coverts and tail blue, the rectrices tipped with white, more broadly on the outer ones, which are also whitish along the outer web; lores, eyebrow, and a ring round the eye whitish; ear-coverts maroon; cheeks, throat, and centre of abdomen white; the breast and sides of the body sandy buff, as well as the under wing-coverts and axillaries; quills dark brown below, fulvescent along the edge

of the inner web. Total length 5·4 inches, culmen 0·5, wing 2, tail 2·7, tarsus 0·9.

Hab. N.W. Australia.

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|-------------------------|-----------------------------------|------------------------|
| <i>a, b.</i> ♂ ♀ ad sk. | N.W. Australia. | J. R. Elsey, Esq. [P.] |
| | | (Types of species.) |
| <i>c.</i> ♀ ad. sk. | Robinson's River, N.W. Australia. | J. R. Elsey, Esq. [P.] |

13. *Malurus melanocephalus*.

Malurus melanocephalus, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 222; *Gould, B. Austr. folio*, iii. pl. 26; *Gray, Gen. B.* i. p. 165; *Bp. Consp.* i. p. 219; *Reichenb. Vög. Neuhol.* pp. 101, 291; *Gould, Handb. B. Austr.* i. p. 333; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 184.

Malurus browni, *Jard. & Selby, Ill. Orn.* ii. pl. 72 (*nec V. & H.*).

Malurus dorsalis, *Gray, Hand-l. B.* i. p. 204, no. 2887.

Adult male. General colour above scarlet-vermilion; wing-coverts velvety black; quills dark brown, edged with paler brown; upper tail-coverts black; tail-feathers blackish, edged with lighter brown near the base; head and neck all round as well as the entire under surface of body velvety black, the lower flanks mixed with fulvous-brown, as also the lower abdomen and thighs; under wing-coverts and axillaries light fulvous; quills dusky brown below, fulvescent along the edge of the inner web; "bill black; feet fleshy brown; iris blackish brown" (*Gould*). Total length 4·8 inches, culmen 0·4, wing 1·7, tail 1·9, tarsus 0·75.

Adult female. General colour above brown, a little dingier on the crown; wings dark brown, more rufescent on the edges of the secondaries, the primaries margined with whity brown; tail-feathers dark brown, the outermost feather edged and tipped with fulvous-brown; ear-coverts and sides of face dark brown, with shaft-lines of whity brown; feathers round the eye and lores whitish or fulvous; under surface of body buffy white; the flanks fulvous, the thighs brown; under wing-coverts fulvous, quills dark brown below; "bill brown; base of under mandible reddish brown; feet flesh-brown" (*Gould*). Total length 4 inches, culmen 0·45, wing 1·75, tail 1·9, tarsus 0·8.

Hab. South Australia and Eastern Australia, as high as Rockingham Bay.

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| <i>a, b.</i> ♂ ♀ ad. st. | Australia. | |
| <i>c.</i> ♂ ad.; <i>d.</i> ♂ juv. st. | Australia. | J. Gould, Esq. |
| <i>e, f.</i> ♂ ad. st. | Australia. | J. Gould, Esq. |

14. *Malurus dorsalis*.

Sylvia dorsalis, *Lewin, B. New Holl.* pl. 14.

Malurus brownii, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 223; *Gould, B. Austr.* iii. pl. 27; *Gray, Gen. B.* i. p. 165; *Bp. Consp.* i. p. 219;

Reichenb. Vög. Neuhol. pp. 102, 291; *Gray, Hand-l. B.* i. p. 204, no. 2888; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 184.
Malurus cruentatus, *Gould, P. Z. S.* 1839, p. 143; *id. Handb. B. Austr.* i. p. 334.

Adult male. General colour above dark crimson; wing-coverts and inner secondaries velvety black; remainder of the quills dark brown, externally edged with whitish brown; upper tail-coverts and tail-feathers black; head and neck all round, as well as the entire under surface velvety black, including the under wing-coverts and axillaries; quills blackish below, lighter along the edge of the inner web; "bill black; legs fleshy brown" (*J. Gould*). Total length 3·4 inches, culmen 0·4, wing 1·55, tail 1·65, tarsus 0·75.

Female. Uniform light brown, the abdomen inclining to white; bill and feet light brown. (*Gould*.)

Obs. The type of *M. browni* in the Museum scarcely equals in intensity the blood-red or crimson colouring of the Port-Essington and N.W.-Australian birds; and it seems that there may be possibly three species of red-backed *Maluri*, differing only in the intensity of the colouring of the back. The oldest name for the crimson-backed species, the *M. cruentatus* of Gould, is certainly the *Sylvia dorsalis* of Lewin.

Hab. Northern and North-eastern Australia, as far south as Rockingham Bay.

| | | |
|---------------------------------|-----------------|--|
| a. ♂ ad. sk. | Australia. | Linnean Society [P.] (Type of <i>M. browni</i>). |
| b. ♂ imm. sk. | Australia. | Sir T. Mitchell [P.] |
| c, d. ♂; e, f. ♀ ad. sk. | Port Essington. | Capt. W. Chambers [P.] |
| g. ♀ ad. sk. | Port Essington. | J. B. Jukes, Esq. [P.] |
| h, i, k. ♂ ad.; l, m. ♀ ad. sk. | N.W. Australia. | J. R. Elsey, Esq. [P.] |
| n. ♂ ad. sk. | Gilbert River. | J. R. Elsey, Esq. [P.] |

15. *Malurus albiscapulatus*.

Malurus alboscapulatus, *Meyer, Sitz. k. Akad. Wien*, lxi. p. 496;
Salvad. Ann. Mus. Civic. Genov. vii. p. 778, ix. p. 36; *Gould, B. New Guinea*, part iv.; *Sharpe, Pr. Linn. Soc.* xiii. pp. 315, 494.

Adult General colour blue-black, of a velvety texture; scapulars pure white, forming a conspicuous white patch on each side of the back; wing-coverts velvety black, like the back; quills and tail-feathers black, edged with velvety black; entire under surface of body velvety blue-black, with a little white tuft of feathers on the sides of the upper breast, continuous with the white scapular patch. Total length 4·1 inches, culmen 0·5, wing 1·8, tail 1·85, tarsus 0·75.

Hab. North-western and South-eastern New Guinea.

43. **ERYTHROCERCUS.**

Type.

Erythrocerus, *Hartl. Orn. W.-Afr.* p. 97 (1857) *E. maccalli*.Bill of *Erythrocerus maccalli*.*Range.* Confined to Africa.*Key to the Species.*

- a.* Head rufous, streaked with white; upper surface of body grey *maccalli*, p. 298.
b. Head ashy grey; upper surface of body olive-yellow *livingstonii*, p. 298.

1. ***Erythrocerus maccalli*.** (Plate IX. fig. 1.)*Pycnosphrys maccalli*, *Cass. Proc. Philad. Acad.* 1855, p. 326.*Erythrocerus maccalli*, *Hartl. Orn. W.-Afr.* p. 97; *Cass. Proc. Philad. Acad.* 1859, p. 51; *Hartl. J. f. O.* 1861, p. 170; *Fensch & Hartl. Vög. Ostaf.* p. 303; *Sharpe & Bouvier, Bull. Soc. Zool. France*, 1877, p. 479.*Muscicapa m'callii*, *Gray, Hand-l. B.* i. p. 323, no. 4853.

Adult female. General colour above ashy grey, slightly more rufescent on the lower back, the upper tail-coverts and tail-feathers bright chestnut; wing-coverts like the back, the greater series and the quills browner, with ashy brown edgings; crown of head chestnut, with white mesial streaks to the feathers, the lores fawn-colour; feathers round and below the eye chestnut; ear-coverts ashy grey, like the hinder crown and sides of neck, the latter with buffy-white bases to the feathers; cheeks, throat, and fore neck fawn-buff; rest of under surface buffy whitish, the thighs browner; under wing-coverts pale fawn-colour, as also the edgings to the quills below. Total length 4.1 inches, culmen 0.35, wing 1.85, tail 1.95, tarsus 0.6.

Hab. Camma and Moonda Rivers, Gaboon, and the Congo.*a.* ♀ ad. sk. Grande, Congo. Dr. Lucan and M. Petit [C.].2. ***Erythrocerus livingstonii*.** (Plate IX. fig. 2.)*Muscicapa*, n. sp., *Gray, Hand-l. B.* i. p. 323, no. 4854, *undē*.*Erythrocerus livingstonii*, *Fensch & Hartl. Vög. Ostaf.* p. 303 (*ex Gray, MSS. in Mus. Brit.*).

Adult (type of species). Crown of head ashy grey; general colour above olive-yellow; the rump and upper tail-coverts bright tawny rufous; the tail chestnut, with yellowish margins near the base of the feathers; wing-coverts light brown, with yellowish margins; quills dark brown, also margined with yellow; lores, cheeks, and

chin white; ear-coverts light ashy; rest of under surface of body bright yellow, slightly washed with fulvous on the under tail-coverts; under wing-coverts bright yellow, the greater series white. Total length 3·7 inches, culmen 0·3, wing 1·75, tail 1·9, tarsus 0·6.

Hab. South-eastern Africa.

a. Ad. sk.

Zambesi.

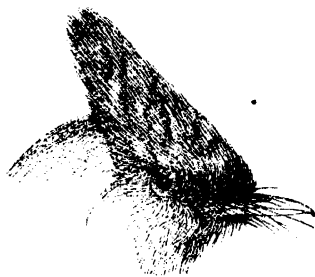
Dr. Livingstone [C.].

(Type of species.)

44. TROCHOCERCUS.

Type.

Trochocercus, *Cab. Mus. Hein.* i. p. 58 (1850) *T. cyanomelas*



Head of *Trochocercus cyanomelas*, to show crest.

Range. Confined to Africa.

Key to the Species.

- a.* Tail blackish, the feathers edged with grey. •
 - a'.* Inner greater coverts and inner secondaries pure white, forming a distinct patch: back grey; breast white; sides of body grey *cyanomelas*, p. 299.
 - b'.* No white at all on the wing; back glossy bluish black; abdomen light cinereous *nitens*, p. 300.
- b.* Tail chestnut, as also the wings; throat and breast grey, shading off into white on the abdomen and under tail-coverts *borbonicus*, p. 302.

1. *Trochocercus cyanomelas.*

Le Gobe-mouche mantelé, *Levaill. Ois. d'Afr.* iv. p. 5, pl. 151. figs. 1, 2; *Sauvée. Crit. om Levaill.* p. 41.

Muscicapa cyanomelas, *Vieill. N. Dict. d'Hist. Nat.* xxi. p. 473; *Grill. Zool. Anteckn.* p. 26, no. 20.

Muscicapa scapularis, *Steph. Gen. Zool.* xiii. pt. 2, p. 112.

Tchitrea cyanomelas, *Gray, Gen. B.* i. p. 260; *Layard, B. S. Afr.* p. 146; *Gray, Hand-l. B.* i. p. 334, no. 5029.

Philentoma cyanomelas, *Bp. Consp.* i. p. 324.

Trochocercus cyanomelas, *Cab. Mus. Hein.* Th. i. p. 58; *Sharpe, ed. Layard's B. S. Afr.* p. 354, no. 341.

Tchitrea cyanomelena, *Gurney, Ibis*, 1862, p. 30.

Terpsiphone cyanomelas, *Finsch & Harth. Vög. Ostaf.* p. 312, note; *Sharpe, Cat. Afr. B.* p. 44, no. 413.

Adult male. General colour above light grey, with a bluish gloss;

head crested, bright steel-green, as also the sides of the head and the throat; sides of neck grey, glossed with steel-green; lesser and median wing-coverts dark grey, glossed with steel-green; greater series black, slightly edged with greenish and narrowly tipped with white, the innermost of this series white on the outer web, forming a conspicuous white longitudinal patch with the innermost secondaries, which are entirely pure white, all the rest of the quills blackish; tail blackish, undulated with dusky under certain lights, the outer webs of the feathers washed with grey; under surface of body white, the bases of all the feathers greyish, the flanks also slightly washed with grey; under wing-coverts and axillaries white, the outermost coverts and the edge of the wing grey: "bill, tarsi, and feet slate-colour; iris dusky" (*F. A. Barratt*). Total length, 5·2 inches, culmen 0·5, wing 2·6, tail 3·1, tarsus 0·7.

Adult female. Differs from the male in having the back washed with olive-brown, as also the sides of the face; crown of head slightly crested and metallic greyish steel-blue; lores and cheeks whitish, mottled with grey bases to the feathers; under surface of body white, the flanks washed with olive-brown; the throat also white, mottled with greyish bases to its feathers. Total length 5·8 inches, wing 2·6, tail 3·1, tarsus 0·7.

Young. Olive-brown above; the greater wing-coverts broadly tipped with ochraceous, as also the secondaries; quills and tail dark brown: crown greyish, without any perceptible gloss; under surface of body whitish, the breast and flanks washed with brown, the throat mottled with dusky bases to the feathers.

Hab. South Africa.

| | | |
|--------------------|--|-----------------------------|
| a. Juv. sk. | George, South Africa (<i>H. Atmore</i>). | R. B. Sharpe, Esq. |
| b, c, d. ♂ ad. sk. | Knysna, Feb. 1866 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. |
| e. ♀ ad. sk. | Knysna, Dec. 17, 1865 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. |
| f. ♀ juv. sk. | Knysna, Feb. 2, 1866 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. |
| g. ♀ ad. sk. | Knysna. | C. J. Andersson, Esq. [C.]. |
| h. ♂ ad. sk. | Peri Bush near Kingwilliamstown. | Lient. Trevelyan [P.]. |
| i. Juv. sk. | Near Kingwilliamstown. | Lient. Anstey [P.]. |
| k. ♂ ad. sk. | Macamac, Sept. 22, 1874. | F. A. Barratt, Esq. [C.]. |
| l. ♂ ad. st. | Natal. | Zoological Society. |
| m. ♂ ad. st. | Natal. | Purchased. |

2. *Trochocercus nitens**.

Trochocercus nitens, *Cassin, Proc. Philad. Acad.* 1859, p. 50; *id. Journ. Acad. Philad.* 2nd series, vol. iv. 4to, p. 325, pl. 50. fig. 4;

* *TROCHOCERCUS*, sp.

Trochocercus — ?, *Cassin, Pr. Phil. Acad.* 1859, p. 51.

"Several specimens of young birds from the Camma seem to indicate a third

Heine, J. f. O. 1859, p. 428; Sharpe & Bouvier, Bull. Soc. Zool. France, 1876, p. 45; Bocage, Orn. Angola, p. 195.

Tchitreia nitens, Gray, Hand-l. B. p. 334, no. 5030.

Terpsiphone nitens, Finsch & Hartl. Vög. Ostaf. p. 312, note.

Terpsiphone atrochalybea ♀, Sharpe, Ibis, 1874, p. 61 (nec Thomson).

Terpsiphone nigrimitrata, Reichenow, J. f. O. 1874, p. 110 (types examined)*.

Adult male. General colour above glossy steel-black; quills and tail black, edged with the same colour as the back; sides of face, sides of neck, throat, and fore neck glossy steel-black; rest of under surface light slaty grey, as also the under wing-coverts; thighs dusky brown; quills blackish below, lighter brown along the edge of the inner web. Total length 6 inches, culmen 0.6, wing 2.5, tail 2.9, tarsus 0.65.



Bill and foot of *Trochocercus nitens*.

Adult female. Top of head (or crest) only glossy black as in the

species of this group larger than either *T. cyanomelas* or *T. nitens*. Young of both sexes resemble the females of both the species just mentioned, but are of darker cinereous, and like them have the crest only black. The bill is larger and more depressed. I do not regard it as expedient to propose a new specific designation in this difficult family, without having adult specimens." (Cassin, l. c.)

* Dr. Peters was so kind as to send me for examination the types of Dr. Reichenow's *T. nigrimitrata*; and in the absence of typical specimens of *Trochocercus nitens*, I was inclined to consider them quite a distinct species. During a recent visit however to Berlin, I found several birds from the same

set, and I also identify with the same species three specimens which I had before determined as the female of *Terpsiphone atrochalybea*. At the same time I give a description of the types lent me by Dr. Peters, and should add that the woodcuts which accompany this article are drawn from the Berlin specimens.

Male (type of species). General colour above slaty blue, as also an eyebrow, sides of head, and under surface of body; the lower parts rather lighter and more greyish blue; entire crown of head black, forming a cap; least wing-coverts slaty blue like the back, the remainder of the coverts and the quills dark sepia-brown, with an obscure edging of slaty blue on some of the coverts and inner secondaries; tail-feathers blackish; bill black; feet blue; iris dark. Total length 5.5 inches, culmen 0.55, wing 2.55, tail 2.5, tarsus 0.7. (Mus. Berol.)

Adult female. Differs from the male in being ashy blackish above, with a greenish gloss, the crown dusky black; below ashy whitish, as also the lores and eyebrow; sides of face and neck ashy whitish, the ear-coverts dull blackish. Total length 5.5 inches, culmen 0.55, wing 2.4, tail 2.5, tarsus 0.6.

male; back and other upper parts dark cinereous (without lustre); wings and tail ashy black. Entire underparts light cinereous, darker on the throat and breast, and very pale on the abdomen; under wing-coverts light ashy, nearly white. (*Cassin, l. c.*)

Besides the three specimens in the British Museum, I lately observed four others in the Leiden collection, three males and a female. The latter answered to the description given by Cassin. The measurements were as follows:—Total length 5 inches, culmen 0·55, wing 2·3, tail 2·75, tarsus 0·6.

Hab. West Africa; Gold Coast to the Congo.

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| <i>a, b.</i> Ad. sk. | Fantee (<i>H. T. Ussher</i>). | R. B. Sharpe, Esq. |
| <i>c.</i> Ad. sk. | Fantee (<i>Aubin</i>). | R. B. Sharpe, Esq. |

3. *Trochocercus borbonicus*.

Le Gobe-mouche hupé de l'île de Bourbon, *Briss. Orn.* ii. p. 420, pl. 39. fig. 2; *Daubent. Pl. Enl.* v. pl. 573. fig. 1.

Muscicapa bourbommensis, *P. L. S. Müll., S. N. Anhang*, p. 171.

Bourbon Flycatcher, *Lath. Gen. Syn.* ii. p. 330.

Muscicapa borbonica, *Gen. Syst. Nat.* i. p. 939.

Platyrhynchus borbonicus, *Vieill. N. Dict. d'Hist. Nat.* xxvii. p. 13.

Tchitre borbonica, *Tess. Rev. Zool.* 1838, p. 278; *Blyth, Cat. B. Mus.*

A. S. B. p. 204; *Hartl. Faun. Madag.* p. 46; *Schl. P. Z. S.* 1866, p. 422; *E. Nacl. Ibis*, 1861, p. 271.

Muscipeta borbonica, *Bp. Conspect.* i. p. 325; *Schl. & Poll. Faune Madag.* p. 78, pl. 22.

Terpsiphone borbonica, *Cab. Mus. Hein. Th.* i. p. 57; *Heugl. Orn.*

N.O.-Afr. p. 446, note; *Hartl. Vög. Madag.* p. 176.

Adult. General colour above deep chestnut, the wing-coverts like the back; bastard wing, primary-coverts, and primaries black, the latter narrowly edged with chestnut, the secondaries more broadly, the innermost entirely chestnut, excepting a mesial blackish shade; tail chestnut; head and neck glossy purplish black, extending slightly upon the mantle; sides of face and ear-coverts glossy black, with a faint steel-green gloss; under surface of body dark slaty grey, lighter on the sides, the flanks slightly washed with rufous; lower abdomen, thighs, and under tail-coverts white; under wing-coverts and axillaries white, with a faint reddish blush; edge of wing slaty grey, quills ashy brown below, reddish along the edge of the inner web, broader on the inner secondaries; bill and feet blackish; iris dusky. Total length 6 inches, culmen 0·55, wing 2·9, tail 2·9, tarsus 0·7.

Adult female. Similar to the male, but with the head and hind neck grey, glossed with steel-blue on the crown; ear-coverts dark ashy; throat and underparts generally lighter grey than in the male, the vent and under tail-coverts white. Total length 5·9 inches, culmen 0·5, wing 2·75, tail 2·75, tarsus 0·7.

Nestling. Entirely dark cinnamon above, below paler, the belly whiter, the chest-feathers with white shaft-streaks; tail-feathers cinnamon-brown, darker brown at base; wing-coverts and quills blackish brown, broadly edged with rufous. (*Mus. A. & E. Newton.*)

Hab. Islands of Mauritius and Bourbon,

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| <i>a, b, c.</i> Ad. sk. | Mauritius (<i>Bewsher</i>). | R. B. Sharpe, Esq. [P.]. |
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45. RHIPIDURA*.

Type.

Rhipidura, *Vigors & Horsf. Tr. Linn. Soc.* xv. p. 247 (1825) R. albiscapa.
 Leucocircia, *Swains. Monogr. Flyc.* p. 126 (1837) R. tricolor.
 Sauloprocta, *Cabanis, Mus. Hein.* Th. i. p. 57 (1850). . . . R. tricolor.

Range. From India and Ceylon, through the Burmese countries to the Malayan peninsula, extending over the whole of the Malayan archipelago, Australia, and Oceania.

Obs. Under this generic name several apparent subgenera are included, as they appear to have no certain characters by which they could be easily told. Between such species as *R. tricolor* and *R. fuliginosa* there is, at first sight, a great difference in the head, the former having a stout bill with comparatively few rictal bristles, while the latter has a weak bill with numerous rictal bristles surpassing the bill in length. But between these two forms every possible gradation is found as regards the number of rictal bristles and strength of bill. I have therefore kept the species of *Rhipidura* in one genus containing sections not deemed worthy even of subgeneric separation.

Key to the Species†.

- a.* Three or more outer tail-feathers with entirely white or creamy white shafts.
a'. Centre tail-feathers with white shafts like the others.
a''. Inner web of tail-feathers entirely whitish, the outer one dark brown *flabellifera*, p. 308.
b''. Inner web of tail-feathers dark brown like the outer, but edged with white on the inner margin of the feathers; entire inner web never entirely white
bulgeri, p. 309.
b'. Two centre tail-feathers with brown shafts, the rest with white ones.
e''. Under surface ochraceous buff, the breast uniform; throat white, with a black or grey patch on lower portion.
a'''. Throat-mark black } *albiscapa*, p. 310.
} *saturata*, p. 311.

* The following bird has been placed in the genus *Rhipidura* :—

MUSCICAPA OCHRACEA.

Muscicapa ochracea, *Sparrm. Mus. Carls.* i. pl. 22; *Sundev. Crit. on Sparrm.* p. 6.

Campephaga ochracea, Vieill. N. Diet. x. p. 50.

Rhipidura ochracea, Gray, *Gen. B.* i. p. 258; *id. Hand-l. B.* i. p. 332, no. 4990.

A species said to have been found at the Cape of Good Hope, but certainly not a *Muscicapine* bird. Prof. Sundevall thinks that it may be intended for a young *Promecrops caffer* of which the bill has been broken. It looks something like a bad figure of a *Crateropus*.

† The forms included in this genus are so varied that it has been found very difficult to construct a diagnostic table which should represent them in their natural order. The present arrangement in the key is somewhat artificial, and is written with a view to the easy deciphering of the species.

leaving only the rump and upper tail-coverts rufous; ear-coverts brown *dryas*, p. 322.

f'''. With no black at all on the fore neck or throat, which is fulvescent like the sides of the body and under tail-coverts; tail ashy brown, tipped with white. *rufidorsa*, p. 322.

g''. Tail brown, tipped with cinnamon.

g'''. Smaller; culmen 0.4 inch: with no black jugular collar; under surface of body cinnamon-buff, deepening on the flanks and under tail-coverts; no white on throat and chest. *rufa*, p. 323.

h'''. Larger; culmen 0.6 inch: belly cinnamon; throat and chest white, with a broad jugular collar of black *lepida*, p. 322.

h''. Outer tail-feathers cinnamon, the centre ones black for their entire length.

i'''. Entire back cinnamon, the head slightly browner only; below paler cinnamon, more fulvous on the throat *brachyrhyncha* ♀, p. 316.

k'''. Head and mantle greyish blue, contrasting with the lower back and rump, which are cinnamon; throat and chest also greyish blue, contrasting with the pale cinnamon-buff abdomen.

e¹. Belly pale cinnamon-buff. *cyathiceps*, p. 323.

f⁴. Belly white *albiventris*, p. 324.

i''. Tail entirely cinnamon or chestnut *phoenicura*, p. 324.

j'. Upper tail-coverts brown, or grey, or black, never rufous, and agreeing generally with the rest of the back.

k''. With fuliginous or black under tail-coverts, always uniform.

l'''. With uniform chest, not spotted with white.

g⁴. Tail-feathers broadly tipped with white.

e⁶. Centre of throat white; chin black; bill narrow, entirely black *albicollis*, p. 317.

f⁵. Centre of throat black, the chin and sides of throat white; bill broader, the lower mandible yellow with a blackish tip. *maculipectus* juv., p. 326.

h⁴. Tail-feathers not tipped with white.

g⁵. No white over the eye; under surface of body chocolate; throat deep ashy. *fuliginosa*, p. 316.

- h*⁵. Over the eye a white spot.
*e*⁶. Under surface of body black, including the throat *brachyrhyncha* ♂, p. 316.
*f*⁶. Under surface of body brown, like the upper, inclining to black on the rump and abdomen and both series of tail-coverts; throat white. . . *threnothorax* juv., p. 325.
*m*⁷. Chest guttate, with numerous large ovate spots of white.
*i*¹. Centre of breast and abdomen blackish or dark ashy.
*i*². Above brown; throat white; tail uniform, not tipped with white. *threnothorax* ad., p. 325.
*k*⁵. Above black; throat black in the centre; tail-feathers broadly tipped with white. . . . *maculipectus*, p. 326.
*k*⁴. Centre of breast and abdomen white; tail-feathers tipped with white *leucothorax*, p. 327.
*l*¹. Under tail-coverts white, or ochraceous, or cinnamon, never entirely dusky or black, sometimes white with blackish bases.
*n*⁷. Thorax white, separated from the abdomen by a broad pectoral collar of slaty grey or ashy brown, generally with white streaks or spots.
*l*¹. Inner secondaries not edged with white.
*l*⁵. Tail-feathers not broadly tipped with white; breast guttate, with distinct oval spots of white.
*g*⁶. Belly and under tail-coverts deep ochraceous buff or cinnamon; outermost tail-feather edged with whitish along the outer web *bouruensis*, p. 327.
*h*⁶. Belly and under tail-coverts white; tail entirely uniform, with no white tips or edges to any of the feathers. *cinerea*, p. 328.
*m*⁵. Tail-feathers broadly tipped with white; breast almost uniform, with a few white spots or streaks half concealed.
*i*⁶. Breast smoky ash-grey; belly and under tail-coverts pale ochraceous buff.
*a*⁷. Outer tail-feathers broadly tipped and edged with white *selosa*, p. 329.
*b*⁷. Outer tail-feathers broadly edged and tipped with smoky buff *assimilis*, p. 330.

- k⁶*. Breast slaty black with white ovate streaks; outer tail-feather white at tip for less than a third of its length; penultimate feather tipped with white *kordensis*, p. 330.
- l⁶*. Breast slaty grey, streaked with concealed lines of white; outermost tail-feather white for about half its length; penultimate one broadly, and third one minutely spotted with white *vidua*, p. 331.
- m¹*. Inner secondaries broadly edged with white, forming a bar down the wing; tail-feathers uniform, not tipped with white *obiensis*, p. 331.
- n¹*. Throat white, separated from the white breast by a rather narrow black collar.
- n¹*. Tail black below, broadly tipped with white.
- n⁵*. White tips to outer tail-feathers 0·8 inch *javanica*, p. 332.
- o⁵*. White tips to outer tail-feathers 1·1 inch *nigritorquis*, p. 334.
- o¹*. Tail brown, gradually paler on the outer feathers, and becoming white at the tips *pectoralis*, p. 335.
- p¹*. Throat white; breast fulvous or buffy white, longitudinally streaked with dark brown.
- p¹*. Back smoky brown; head more ashy; sides of body brown; entire breast and abdomen streaked with blackish; under wing-coverts brown *lagardi*, p. 336.
- q¹*. Back rufous, as also sides of body and under wing-coverts.
- p⁵*. Head darker brown, contrasting with the back; streaks on chest broad, not extending to the lower breast or abdomen; thighs rufous-brown, darker than the flanks *erythronota*, p. 337.
- q⁵*. Head rufous-brown like the back; thighs rufous like the flanks; throat and fore neck white, marked with small triangular dusky streaks, a little larger on the chest *rufilateralis*, p. 337.
- q¹*. Throat white; breast uniform.
- r¹*. Under tail-coverts ochraceous buff or pale cinnamon.
- r⁵*. Quills uniform brown; tips to outer tail-feathers white *rufiventris*, p. 331.

Rhipidura flabelliforme, *Hombr. et J. Voy. Pôle Sud, Atlas*, pl. 11. fig. 4.
Muscicapa ventilabrum, *Forster, Icon. ined.* G; *id. Descr. Anim.* p. 86.
Rhipidura albiscapa, *Cass. U.S. Expl. Exp.* p. 150 (*nec Gould*).

Adult male. Above ashy brown, with a slight olive-brown shade; the upper tail-coverts dark slate-colour; crown of head, lores, and sides of face dark slaty brown, with a broad white streak above the eye; wings brown, the median and greater coverts with small white apical spots, the secondaries slightly shaded with ashy, the innermost narrowly edged with whitish; two centre tail-feathers brown, the rest of the feathers white on the inner web, brown on the outer, the two outside feathers shaded with light brown on the inner web, the outermost feathers white on both webs, shaded with brown on the inner web, the shafts of all the feathers white; cheeks and throat dull white; lower throat blackish, the feathers margined with light ochre where they adjoin the fore neck; rest of under surface of body ochraceous buff; under tail-coverts white; thighs brown; under wing-coverts whitish, with ashy bases to the feathers; "bill black; feet blackish brown; iris black" (*Buller*). Total length 6 inches, culmen 0.4, wing 3.95, tail 3.8, tarsus 0.75.

Obs. Two birds from the Bay of Islands at the north of North Island, New Zealand, are paler than the rest of the birds in the Museum, and differ as much as Tasmanian Fantail Flycatchers do from Australian.

Young. Has the ashy brown of the back shaded with rufous; the wing-coverts tipped with pale rufous; under surface of body tawny; sides of face and throat dusky ashy; eyebrow tawny; tail-feathers more shaded with brown than in the adult.

Hab. New Zealand.

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| <i>a, b.</i> Ad. sk. | New Zealand. | Colonial Museum. |
| <i>c.</i> Ad. sk. | New Zealand. | Dr. Sinclair [P.]. |
| <i>d.</i> Ad.; <i>e.</i> Juv. sk. | New Zealand (<i>F. Strange</i>). | Capt. Stokes, R.N. [P.]. |
| <i>f.</i> Juv. sk. | New Zealand. | Purchased. |
| <i>g.</i> Ad.; <i>h.</i> Juv. sk. | Bay of Islands. | Lient. A. Smith [P.]. |
| <i>i.</i> Ad. sk. | Bay of Islands. | Antarctic Expedition [C.]. |

2. *Rhipidura bulgeri*.

Rhipidura albiscapa (*nec Gould*), *Verr. et Des Murs, Rev. et Mag. de Zool.* 1860, p. 392; *Marie, Actes Soc. Linn. Bordeaux*, xxvii. p. 327.
Rhipidura bulgeri, *Layard, Ibis*, 1877, p. 361.

Adult male. General colour above dull slaty brown, uniform on the upper surface, the upper tail-coverts darker and more blackish slate-colour; tail-feathers ashy brown, all with conspicuous white shafts, the outer ones tipped and broadly edged with white along their inner webs; wing-coverts like the back, the greater series minutely tipped with white; quills brown, the inner secondaries with an obsolete whitish edging; loreal plumes mottled with white bases; feathers in front of the eye and below it dusky blackish, as also the ear-coverts; above the fore part of the eye a white spot, and

another behind the eye, running above the ear-coverts; chin and cheeks white; across the throat a dusky greyish band, extending upon the sides of the neck; rest of under surface of body light ochraceous buff, the feathers of the upper breast edged with grey; thighs brown; under tail-coverts white; under wing-coverts like the breast, the greater series tipped with white, all with dusky bases; quills brown below, white brown along the inner webs. Total length 5·3 inches, culmen 0·35, wing 2·6, tail 3·1, tarsus 0·65.

Hab. New Caledonia.

a, b. ♂ ♀ ad. sk. Port de France, New Caledonia, Oct. 1865. Julius Brencchley, Esq. [P.].

3. *Rhipidura albiscapa* *.

Rhipidura flabellifera (nec *Gm.*), *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 247; *Scoates. Monogr. Flyc.* p. 124, pl. 10.

Rhipidura albiscapa, *Gould, P. Z. S.* 1840, p. 113; *Gray, Gen. B.* i. p. 258; *Cab. Mus. Hein. Th.* i. p. 57; *Bp. Consp.* i. p. 323; *Reichenb. Vög. Neuholl.* p. 151; *Gould, Handb. B. Austr.* i. p. 238; *Gray, Hand-l. B.* i. p. 330, no. 4955; *Diggle, Orn. Austr.* pl. 36, fig. 2; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 182.

Adult male. General colour above ashy brown, head with a slightly blacker shade; lores and sides of face blackish brown; over the eye a broad line of white; a second short line of white above the ear-coverts, not continuous with the above-mentioned one; least wing-coverts ashy brown, like the back; greater and median coverts dark brown, tipped with white; primary-coverts and primaries brown, the inner secondaries edged with white; upper tail-coverts and tail brown, with a slight ashy shade, the two centre tail-feathers with brown shafts, the rest with conspicuous white shafts, the ends of the feathers white, extending up the inner webs and along the outer web of the outermost feather; cheeks and throat white; lower throat black; rest of under surface light ochraceous buff, the sides of the breast ashy grey, like the sides of the neck; under tail-coverts white, the longer ones brown with white tips; thighs brown; under wing-coverts whitish, slightly washed with ochraceous, with brown bases; axillaries brown, edged with ochraceous; "bill and feet brownish black; iris black" (*J. Gould*). Total length 6 inches, culmen 0·35, wing 2·75, tail 3·4, tarsus 0·7.

Adult female. Similar to the male. Total length 5·8 inches, wing 2·8, tail 3·4, tarsus 0·6.

Hab. East and South Australia.

* *RHIPIDURA PREISSI.*

Rhipidura preissi, *Cab. Mus. Hein. Th.* i. p. 57; *Gould, Handb. B. Austr.* i. p. 240; *Gray, Hand-l. B.* i. p. 331, no. 4972; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 182.

Hab. Western Australia.

This species is described as being allied to *R. albiscapa*, but differing principally in the absence of the black breast-band. This is one of the chief characters of *R. pelzelni*, and it will be interesting to compare the two species.

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| <i>a.</i> Ad. st. | Australia. | E. Doubleday, Esq. [P.]. |
| <i>b.</i> Ad. sk. | Australia. | |
| <i>c, d.</i> ♂ ♀ ad. sk. | South Australia. | Sir George Grey [P.]. |
| <i>e.</i> Juv. sk. | Australia. | |

4. *Rhipidura saturata*.

Rhipidura albiscapa, Gould, *B. Austr. folio*, ii. pl. 83 (pt.).

Rhipidura albiscapa, Blyth, *Cat. B. Mus. A. S. B.* p. 206 (*nec Gould*).

Similar to *R. albiscapa* of Australia, but rather larger, and everywhere much darker, the head blacker, the sides of the neck and throat-collar deeper black, and the entire under surface richer orange-fulvous; tail blackish, the outer webs and tips of the external feathers smoky brown, dull white towards the base of the outer web of the outermost rectrix; wing-spots much smaller. Total length 6·2 inches, culmen 0·35, wing 2·9, tail 3·55, tarsus 0·65.

Hab. Tasmania.

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| <i>a.</i> Ad.; <i>b.</i> Juv. sk. | Tasmania. | Ronald Gunn, Esq. [P.]. |
| <i>c.</i> Ad. sk. | Tasmania. | Antarctic Expedition [C.]. |

5. *Rhipidura brenchleyi*.

Rhipidura, sp., Gray, *Cat. B. Trop. Isl. Pacific Ocean*, p. 17.

Adult male. General colour above dark slaty grey, the upper tail-coverts blacker; tail-feathers dark brown, the two centre feathers with dark brown shafts, all the others with white shafts and tipped with ashy white, this latter increasing in extent towards the outermost feather, which is light ashy brown along the outer web and for a good part of the end of the inner web; wings dark brown, the wing-coverts edged with ashy, a few of the outer greater coverts minutely spotted with white near the tips of the outer web; primary-coverts and quills dark brown, the innermost secondaries narrowly margined with ashy brown; loreal plumes white, extending above the fore part of the eye; feathers in front of and round the eye and the ear-coverts blackish, the latter with a white spot above them; chin and upper throat white, extending backwards along the cheeks; rest of under surface of body light ochraceous buff, the white throat separated from the breast by a greyish-black band, the sides of the breast washed with grey; thighs brown; under tail-coverts white; axillaries dusky, edged with ochraceous buff; under wing-coverts light ochraceous, dusky at base, the greater series white; quills ashy brown below, lighter along the inner web; bill blackish, lighter at the base of the lower mandible; "iris black" (*Brenchley*). Total length 5·8 inches, culmen 0·4, wing 2·9, tail 3·2, tarsus 0·75.

Adult female. Similar to the male. Total length 5·8 inches, wing 2·95, tail 3·2, tarsus 0·7.

Hab. New Hebrides group of islands.

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| <i>a, b.</i> ♂ ♀ ad. sk. | Anciteum, Aug. 1865.* | Julius Brenchley, Esq. [P.]. |
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6. *Rhipidura pelzelni*.

Rhipidura assimilis, *Pelz. Sitz. k. Akad. Wien*, xli. p. 320 (1820, *nec* Gray, 1858).

Rhipidura pelzelni, *Gray, Ibis*, 1862, p. 226; *id. Hand-l. B.* i. p. 330, no. 4971.

Adult male. Very similar to *R. albiscapa* of Australia, and of the same light ochraceous buff underneath, but having the edges and tips of the outer tail-feathers smoky brown, not white; the throat-mark greyish black, not so deeply coloured as in the Australian bird; "iris black, or dark brown" (*Brenchley*). Total length 6 inches, culmen 0·4, wing 2·7, tail 3·2, tarsus 0·7.

Hab. Norfolk Island.

- a.* ♂ ad. sk. Norfolk Island, June 1855. Dr. Rayner [C.]. Voyage of H.M.S. 'Herald.'
b, c. Ad. sk. Norfolk Island, June 1865. Julius Brenchley, Esq. [P.].

7. *Rhipidura verreauxi*.

Rhipidura verreauxi, *Marie, Actes Soc. Linn. Bordeaux*, xxvii. p. 326; *Layard, Ibis*, 1877, p. 358.

Adult female. General colour above chocolate-brown; wings dusky brown, the least wing-coverts ashy brown, the median series tipped with white, the greater series tipped with pale rufous; primary-coverts and quills dark brown, the edges to the secondaries externally chocolate-brown; upper tail-coverts blackish; four centre tail-feathers dark ashy brown with dark-brown shafts; remainder of the tail-feathers lighter brown, the shafts creamy white, the tips paler brown and verging to ashy whitish, the outer feather ashy whitish along the outer web also; crown of head, nape, and hind neck dark slate-colour, contrasting with the chocolate-brown back; a broad and distinct band of white from the base of the bill above the eye; lores, feathers above the eye, and ear-coverts slaty blackish, with a second streak of white above the latter; cheeks and throat white; breast, fore neck, and chest mottled with black feathers, broadly edged with white, the sides of the breast ashy grey; rest of under surface light brownish buff, the sides of the body browner; thighs like the abdomen; under tail-coverts dusky brown, with light fulvous tips; under wing-coverts and axillaries light brownish buff, the lower series whitish at tips; quills dusky brown below, ashy whitish along the inner web; "bill very dark brown; feet black; iris brown" (*Layard*). Total length 6·3 inches, culmen 0·45, wing 2·65, tail 3·45, tarsus 0·8.

Hab. New Caledonia.

- a.* ♀ ad. sk. Anseвата, New Caledonia, E. L. Layard, Esq. [C.].
 April 26, 1877.

8. *Rhipidura spilodera*.

Rhipidura spilodera, Gray, *Ann. & Mag. N. H.* ser. 4, v. p. 333;
id. in *Brenchley's Cruise of the Curaçoa*, pl. 9.

Adult female (type of species). General colour above brown, the upper tail-coverts dark slaty; crown of head slaty brown, varied with obscure blackish tips to the feathers, especially over the eye and on the forehead; sides of face and feathers in front of and below the eye blackish; a distinct line of white from the base of the nostrils to above the eye; a second line of white from behind the eye above the ear-coverts; chin and cheeks dull white; remainder of throat and breast white, mottled with black centres to the feathers, these mesial markings pointed and very distinct; sides of breast ashy grey, extending slightly upon the flanks, which are fulvous-brown with ashy grey bases; abdomen and under tail-coverts light fulvous, the longest of the latter brown with white tips; thighs ashy brown; under wing-coverts and axillaries ashy brown with white tips; wings above brown, the coverts slightly washed with ashy grey; tail blackish brown, tipped with white, these white tips obsolete on the centre feathers, but gradually increasing in extent towards the outer ones (especially on the inner web), the outermost having also a pale outer web; shafts of the four centre feathers brown, of the next one on each side half brown and half white, of the outer three feathers white; "iris black" (*J. Brenchley*). Total length 6.1 inches, culmen 0.55, wing 3.2, tail 3.65, tarsus 0.9.

Hab. Banks's group of islands.

α. ♀ ad. sk. Vanua Lava, Banks's Islands, J. Brenchley, Esq. [P.].
 Aug. 1865. (Type of species.)

9. *Rhipidura melanolæma*.

Muscylva pectoralis, *Hombr. et Jacq. Voy. Pôle Sud, Atlas*, pl. 11. fig. 3.
Muscylva pectoralis, *Jacq. et Pucher. Voy. Pôle Sud, texte*, iii. p. 75
 (*nec Jerdon*).

Rhipidura pectoralis, Gray, *Gen. B. i.* p. 258; *id. List B. Trop. Isl. Pacific Ocean*, p. 17; *id. Hand-l. B. i.* p. 331, no. 4974.

Adult (type of species). General colour above chocolate-brown, of an ochreous cast, the upper tail-coverts more rufous; wing-coverts darker brown, washed with the same colour as the back, the least and median series with small, nearly obsolete, white tips; quills dark brown, externally margined with the same colour as the back; tail-feathers dark brown, tipped with white, increasing in extent towards the outermost; a narrow frontal line, lores, fore part of cheeks, and ear-coverts black; frontal feathers brown, tipped with white, extending backwards, and forming a white spot over the fore part of the eye; hinder part of cheeks white, forming a second patch of white; entire throat black; chest scale-like, the feathers being black, broadly margined with white; remainder of under surface below white, the flanks brown; under tail-coverts white,

with black bases; under wing-coverts and axillaries white, with brown bases; quills brown below, buffy whitish along the edge of the inner web. Total length 5·9 inches, culmen 0·5, wing 2·8, tail 3·3, tarsus 0·8. (*Mus. Paris.*)

Hab. Island of Malikollo or Vanikoro, New Hebrides.

10. *Rhipidura kubarii*.

Rhipidura kubaryi, *Finsch*, *P. Z. S.* 1875, p. 644; *id. Journ. Mus. Godeffr.* 1876 (Heft xii.) p. 29, pl. 2. fig. 2; *id. P. Z. S.* 1877, p. 779.

Adult male. General colour above smoky brown, the crown uniform with the back, the upper tail-coverts darker brown; wings uniform dark brown; tail-feathers dark brown, tipped with white, increasing in extent towards the outermost; feathers in front of and below the eye blackish, the ear-coverts browner; from the base of the bill to above the eye a broad white streak; throat black, the chin and a moustachial streak white; fore neck and chest mottled, the feathers being black in the centre, with distinct white margins: sides of breast dark ashy; centre of body white, the sides brown, washed with ashy; thighs brown; under tail-coverts blackish, broadly tipped with white; under wing-coverts dark ashy brown, with slight edgings of white; quills dark brown below, edged with ashy whitish along the inner webs; "bill and feet black" (*Kubary*). Total length 6·5 inches, culmen 0·5, wing 2·7, tail 3·35, tarsus 0·75.

Hab. Ponapé Island.

a. ♂ ad. sk.

Ponapé (*Kubary*).

Godeffroy Museum.

11. *Rhipidura personata*.

Rhipidura personata, *Ramsay*, *Proc. Linn. Soc. N. S. W.* i. pp. 43, 72.
Rhipidura, sp., *Layard*, *Ibis*, 1876, p. 392.

Adult. All the upper surface brown, of a duller and darker tint on the head and neck; upper tail-coverts and tail blackish brown, the outermost feathers on each side of the tail margined with white, narrowly at the tip, and becoming only a very narrow line of white margining the inner webs, the shafts of these feathers below white, the next two on either side having only a very small white mark at the apex; wings above brown, the inner secondaries margined on the outer webs with dull light buff; under wing-coverts brown, margined with silvery white; head and neck dark brown; a line of white extends from the forehead over the eye to the upper part of the ear-coverts; lores, ear-coverts, and a narrow line round the eye blackish brown; from the posterior angle of the eye, over the ear-coverts, a short line of white; throat and sides of the neck below white; from the centre of the throat, extending and widening out on the chest, is a broad, somewhat triangular patch of black; the lower part of the chest, the breast, and remainder of the under surface of the body and under tail-coverts white; the sides and flanks tinged with olive-brown, more extensively in some than in

others ; bill black, lower mandible whitish ; legs and feet dark lead-blue ; iris light brown. Total length 6·2 inches ; wing 3·2 ; tail 3·75 ; tarsus 0·4 ; bill from gape 0·55, from forehead 0·4, from nostril 0·3. (*Ramsay*.)

The sexes are alike in plumage, but the female appears to have a greater extent of olive-brown on the flanks and sides.

Hab. Island of Kandavu, Fiji group*.

12. *Rhipidura albilimbata*.

Rhipidura albilimbata, *Salvad. Ann. Mus. Civic. Genov.* vi. p. 312, x. p. 135.

Adult female (Atam ; type of species). General colour above dark slate-colour, the head blackish ; sides of face also black ; from the base of the bill a broad white eyebrow running above the ear-coverts, and behind the eye a little narrow streak of white ; least wing-coverts like the back ; remainder of the coverts brownish black, tipped with a small spot of white, smaller on the median than on the greater coverts ; quills brownish black ; tail black, the two outer feathers tipped with white, the third with a tiny white spot at the tip ; throat white ; chest black ; remainder of under surface dark slaty grey, the feathers in the centre of the breast tipped broadly with white, forming a conspicuous breast-patch ; under tail-coverts white, with dusky bases : under wing-coverts white, with dusky brown bases ; quills ashy blackish below, edged with white brown along the inner web. Total length 5·5 inches, culmen 0·4, wing 2·8, tail 3·05, tarsus 0·6. (*Mus. Civic. Genov.*)

Hab. North-western New Guinea : Atam. •

13. *Rhipidura nebulosa*.

Rhipidura nebulosa, *Peale, U.S. Expl. Exp.* p. 199, pl. 27. fig. 1 ; *Hartl. Arch. f. Naturg.* 1852, p. 101 ; *Cass. U.S. Expl. Exp.* p. 151, pl. 9. fig. 2 ; *Gray, List B. Trop. Isl. Pacif. Ocean*, p. 17 ; *Finsch & Hartl. Faun. Centralpolyn.* p. 86 ; *Gray, Hand-l. B. i.* p. 331, no. 4973 ; *Finsch & Hartl. P. Z. S.* 1871, p. 23 ; *Whitmee, Ibis*, 1875, p. 409 ; *Layard, P. Z. S.* 1876, p. 493.

Rhipidura fuscescens, *Cab. & Reichen. J. f. O.* 1876, p. 319 ; *Salvad. P. Z. S.* 1877, p. 194.

Adult. Above dark ashy grey, the head and the wing-coverts uniform with the back ; greater coverts and quills brown, washed with ashy grey on the secondaries ; tail dark brown, with a slight shade of ashy ; the two centre tail-feathers with brown shafts, all the others with white shafts and tipped with white, increasing in extent towards the outermost, and extending a little way up the inner web ; sides of the face dark ashy, with an obscure spot of

* The exact locality is not stated by Mr. Ramsay ; but Mr. Layard (*l. c.*) states that a new *Rhipidura* was in Mr. Ramsay's possession from Kandavu, and that is doubtless the present species.

white over the fore part of the eye, and a second streak of white behind the eye above the ear-coverts; throat dull ashy, with hoary margins to the feathers; fore neck and chest clearer ashy; centre of body pale ochraceous buff; sides of body ashy brown; under tail-coverts white; thighs brown; under wing-coverts ashy grey; quills dark brown, lighter brown along the inner web; "bill blackish, the lower mandible paler at the base; feet horn-blackish; iris brown" (*Graeffe*). Total length 5·6 inches, culmen 0·4, wing 2·75, tail 3·35, tarsus 0·65.

Hab. Samoa or Navigator's Islands.

a. Ad., b. Juv. sk. Upolu, Samoa. Rev. S. J. Whitmee [C.].

14. *Rhipidura fuliginosa*.

Muscicapa fuliginosa, *Sparrm. Mus. Carls.* i. pl. 47.

Muscicapa deserti, *Gm. S. N.* i. p. 940 (*ex Sparrm.*).

Rhipidura melanura, *Gray, in Dieffenb. Trav. N. Zeal.* ii. App. p. 191; *id. Gen. B.* i. p. 258; *id. Ibis*, 1862, p. 225; *id. Voy. Ereb. & Terror*, p. 8; *id. Houd-t. B.* i. p. 330, no. 4954.

Rhipidura fuliginosa, *Gray, Gen. B.* i. p. 258; *Finsch, J. f. O.* 1872, p. 165, et 1874, p. 190; *Buller, B. N. Zeal.* p. 146; *Sharpe, Voy. Ereb. & Terr.*, App. p. 26.

Leucoerca melanura, *Bp. Consp.* i. p. 324.

Rhipidura sombre, *Hombr. & Jacq. Voy. Pôle Sud, Atlas*, pl. 11. fig. 4.

Rhipidura tristis, *Jacq. & Pucheran, Voy. Pôle Sud*, iii. p. 76 (1853); *Gray, Ibis*, 1862, p. 226.

Adult male (type of *R. melanura*). General colour above smoky brown or chocolate, the upper tail-coverts blackish slate-colour, contrasting with the back; wings dark brown; tail uniform blackish brown; crown of head and sides of face dusky ashy brown; throat dull ashy; remainder of under surface chocolate; "bill black, white at the base of the lower mandible; tarsi and toes blackish brown; iris black" (*Buller*). Total length 6·3 inches, culmen 0·3, wing 2·95, tail 4·15, tarsus 0·75.

Adult female. Similar to the male, but with the white spots behind the ears much reduced (*Buller*). Total length 6·2 inches, culmen 0·3, wing 3·05, tail 3·9, tarsus 0·75.

Hab. New Zealand.

a, b. ♂ ♀ ad. sk. Port Cooper, New Zealand. Capt. Stokes [P.].
(Types of *R. melanura*.)

15. *Rhipidura brachyrhyncha*.

Rhipidura brachyrhyncha (♀), *Schl. N. T. D.* iv. p. 42; *Salvad. Ann. Mus. Civic. Genov.* vii. p. 923.

Rhipidura atra (♂), *Salvad. Ann. Mus. Civic. Genov.* vii. p. 922, xii. p. 324.

Adult male (Atam; type of *R. atra*, *Salvad.*). General colour above slaty black, as well as the entire under surface of the body; head and sides of face deeper black, with a spot of silky white

plumes above the eye; wings brownish black; tail deep black; under wing-coverts blackish, with broad white edges; quills dusky brown below, lighter brown along the edge of the inner web. Total length 6·2 inches, culmen 0·45, wing 3·05, tail 3·5, tarsus 0·85. (*Mus. Genov.*)

Adult female (Arfak Mountains; *R. brachyrhyncha*, Schl.). General colour above bright cinnamon, the head browner; lores, eyebrow, sides of face, and ear-coverts deep cinnamon; wing-coverts and quills blackish brown, all the feathers edged with deep cinnamon; four centre tail-feathers black, the next one on each side externally cinnamon, internally black, the three outer feathers bright cinnamon; entire under surface of body cinnamon-rufous, a little duller than the back, and more fulvous on the chin and throat; under wing-coverts light cinnamon, as also the inner edges of the quills, which are dusky blackish below. Total length 6·3 inches, culmen 0·45, wing 2·95, tail 3·7, tarsus 0·7. (*Mus. Civic. Genov.*)

Hab. North-western New Guinea.

16. *Rhipidura albicollis*.

- Platyrhynchus albicollis*, *Vicill. N. Dict. d'Hist. Nat.* xxvii. p. 13.
Muscicapa (*Muscylva*) *albogularis*, *Less. in Bélang. Voy., Zool.* p. 264;
Pucher. Arch. Mus. vii. p. 372.
Rhipidura fusciventris, *Frankl. P. Z. S.* 1831, p. 117; *Jerd. Ill. Ind. Orn.* text to pl. ii; *Blyth, J. A. S. B.* xii. p. 935, xv. p. 290 *id.*
Cat. B. Mus. A. S. B. p. 206; *Gray, Gen. B.* i. p. 259; *Bp. Consp.* i. p. 324; *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 93; *Jard. Contr. Orn.* 1852, p. 92; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 145; *Jerd. B. Ind.* i. p. 451; *Gray, Harml. B.* i. p. 331, no. 4984; *Cock & Marsh. Str. F.* 1873, p. 352; *Ball, Str. F.* 1874, p. 404; *Brooks, Str. F.* 1875, p. 235.
Rhipidura albignola, *Hodgs. in Gray's Zool. Misc.* p. 84.
Muscicapa (*Rhipidura*) *samio*, *Sundev. Ann. N. H.* xviii. p. 174.
Leucocerca fusciventris, *Hume, Nests and Eggs Ind. B.* p. 200.
Leucocerca albicollis, *Hume, Str. F.* 1874, p. 475, et 1875, p. 103;
Blyth & Walden, B. Burm. p. 132.

Adult male. General colour above smoky black, the crown, lores, sides of face, and chin deep black; over the eye a white superciliary streak; wings browner than the back, the coverts rather more smoky black like the back; two centre tail-feathers black, the rest broadly tipped with white, before which is a slight shade of brown; across the lower throat a patch of dull white, extending on each side to the side of the neck; rest of under surface slaty black, the greater series of under wing-coverts tipped with white; "eyelids grey; iris deep brown; inside of mouth fleshy white" (*Oates*). Total length 6·7 inches, culmen 0·5, wing 3·1, tail 4, tarsus 0·7.

Adult female. Like the male, but greyer below, with more white on the throat. Total length 6·8 inches, wing 2·8, tail 3·9, tarsus 0·75.

Young. Much browner than the adults, with rufescent tips to the wing-coverts; under surface of body shaded with dull rufous

edges to the feathers; white eye-streak indistinct, and the white spot on the throat almost entirely absent.

Hab. India and Burmese countries.

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| <i>a.</i> Ad. sk. | India. | Purchased. |
| <i>b.</i> Ad. sk. | Cashmere. | R. B. Sharpe, Esq. [P.]. |
| <i>c.</i> Ad. sk. | Lower hills, Murree. | Capt. C. H. T. Marshall [P.]. |
| <i>d.</i> Ad. sk. | Murree. | Capt. J. Biddulph [C.]. |
| <i>e.</i> ♀ jun. sk. | Simla, June 1865. | Capt. J. Biddulph [C.]. |
| <i>f.</i> Ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>g.</i> Ad. sk. | Darjiling. | J. Fotheringham, Esq. [P.]. |
| <i>h-l.</i> Ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>m, n.</i> Ad. sk. | Upper Assam (<i>Dr. Reid</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>o.</i> ♀ ad. sk. | "Dense grass jungle below Bhamau, Jan. 31, 1875." | Dr. J. Anderson [C.]. |
| <i>p.</i> ♂ ad. sk. | Ponsee, Kakhien hills, March 28, 1875. | Dr. J. Anderson [C.]. |

17. *Rhipidura squamata*.

Rhipidura squamata, Müll. & Schl. *Natürl. Gesch. Land- u. Volkenk.* p. 184; *Gray, Gen. B. i.* p. 259; *Ep. Consp. i.* p. 323; *Försch, Neu-Guinea*, p. 169; *Gray, Hand-l. B. i.* p. 331, no. 4979; *Salvad. J. Z. S.* 1878, p. 84.

Rhipidura griseicauda, *Salvad. Ann. Mus. Civic. Genov. vii.* p. 924.

Adult. Head and neck brown, shading off paler on the mantle; rest of back, rump, and upper tail-coverts foxy red or bay; wings brown, with a slight shade of ashy brown on the coverts, the secondaries edged with lighter brown; tail-feathers ashy brown, tipped with white, more broadly on the outer ones, the extreme bases of the feathers bay; a frontal line of white extending backwards and forming an eyebrow; the feathers above this eyebrow mottled with black spots; lores, feathers round the eye, and ear-coverts dusky black; cheeks extending in a narrow line backwards, chin, and upper half of the throat white; lower throat black, forming a conspicuous patch; centre of breast and abdomen white, the sides of the body and thighs ashy brown; fore neck mottled with black and white, the feathers being black with broad white edges; under tail-coverts dusky brown, with broad white tips; under wing-coverts white, with brown bases; quills brown below, with whitish edgings to the inner web. Total length 6·5 inches, culmen 0·5, wing 2·75, tail 3·5, tarsus 0·8.

Obs. On comparing the *Salvati* specimen with another from Banda collected by Mr. Wallace, a difference in the forehead is observable. The Banda bird, true *R. squamata* of Müller, has a broad black forehead, with a small spot of white above the fore part of the eye. In the New-Guinea individual the forehead is white, extending backwards over the eye. The type of *R. griseicauda*, from Waigiou, however, kindly lent me by Count Salvadori, shows the frontal plumes brown with white tips; and as it appears a somewhat changeable

character, I prefer not to separate them specifically on a single specimen from each locality.

Hab. New Guinea, Banda, Waigiou.

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| <i>a.</i> Ad. sk. | Salwati. | A. R. Wallace, Esq. [C.]. |
| <i>b.</i> Ad. sk. | Banda. | A. R. Wallace, Esq. [C.]. |

18. *Rhipidura elegantula*.

Rhipidura elegantula, Sharpe, *Notes Leyden Museum*, vol. i. no. 6, p. 22.

Adult male (Lettie, June 1st, 1866; type of species). General colour above bright cinnamon-rufous, rather lighter on the back, rump, and upper tail-coverts; wings ashy brown, with reddish edgings to the wing-coverts and quills, a little plainer on the secondaries, the greater coverts fulvescent at their tips; tail-feathers ashy brown, rufous at the extreme base and for a little extent of the margins of both webs, all tipped with white, increasing in extent on the outer ones, and extending even some distance up the outer web of the exterior feather; forehead conspicuously white, extending backwards above the fore part of the eye; a narrow frontal line of black plumelets, tipped with rufous; lores, feathers round the eye, and ear-coverts black; cheeks and throat white, extending backwards in a triangular mark on the sides of the neck; across the throat a black band, separating the white throat from the rest of the under surface, which is also white, washed slightly with buff on the sides of the body; the feathers on the fore neck adjoining the black throat-band with black bases, producing a mottled appearance when the plumage is disturbed; thighs white, with brown bases; under wing-coverts white; quills ashy brown below, whitish along the inner web. Total length 6·5 inches, culmen 0·5, wing 2·9, tail 3·9, tarsus 0·85. (*Mus. Lugd.*)

Hab. Island of Lettie.

19. *Rhipidura rufifrons*.

Rufous-fronted Flycatcher, *Lath. Gen. Syn. Suppl.* ii. p. 220.

Muscicapa rufifrons, *Lath. Ind. Orn. Suppl.* ii. p. 1.

Rhipidura rufifrons, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 248; *Gould, B. Austr. folio*, ii. pl. 84; *Gray, Gen. B.* i. p. 259; *Bp. Consp.* i. p. 323; *Reichenb. Vög. Neuholl.* p. 98; *Gould, Handb. B. Austr.* i. p. 240; *Gray, Hand-l. B.* i. p. 330, no. 4956; *Diggle, Orn. Austr.* pl. 36. fig. 1; *Ramsay, Ibis*, 1875, p. 377; *id. Proc. Linn. Soc. N. S. W.* ii. p. 182.

Rhipidura torrida, *Wallace, P. Z. S.* 1865, p. 477, pl. 28; *Gray, Hand-l. B.* i. p. 331, no. 4982; *Salvad. Atti R. Accad. Torino*, ix. p. 632.

Adult male. Head, neck, and sides of latter earthy brown; remainder of back and upper tail-coverts bright bay, the mantle shaded with brown; wing-coverts and quills sepia-brown, externally washed with earthy brown, rather more rufous on the greater coverts and secondaries; tail-feathers bay-coloured at the base, sepia-brown for the terminal half, distinctly tipped with white;

forehead bay, extending in a small streak backwards above the eye; lores, feathers below the eye, and ear-coverts blackish; lower edge of eyelid white; cheeks and upper part of the throat white; lower part of the throat black, forming a large patch; fore neck mottled with black and white, the feathers being black in the centre, with broad white margins; centre of breast and abdomen white; sides of body, thighs, and under tail-coverts deep fawn-buff; under wing-coverts white, washed with buff on the edge of the wing; quills dusky brown below, with whitish edges to the inner webs; "bill, feet, and iris brown" (*Gould*). Total length 6·3 inches, culmen 0·5, wing 2·95, tail 3·5, tarsus 0·8.

Adult female. A little duller in colour than the male, the ear-coverts browner, and the mantle more shaded with brown. Total length 6·1 inches, wing 2·85, tail 3·4, tarsus 0·75.

Young. Reproducing the colours of the adult, but having them all more dingy, and the red on the forehead and underparts paler and more buff; wing-coverts all tipped with rufous; throat and cheeks dull white, with a slight shade of rufous; fore neck dull black, the edgings dingy white and broader than in the adults, the sides of the breast dull ashy.

Hab. Australia: "Port Denison, Wide-Bay district, Richmond and Clarence rivers district, N. S. Wales, Victoria" (*E. P. Ramsay*). Barnard Islands; island of Ternate.

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| a. Juv. sk. | Australia. | R. B. Sharpe, Esq. [P.]. |
| b. Ad. st. | Australia. | J. Gould, Esq. [C.]. |
| c. ♂ ad. sk. | Barnard Islands, June 9, 1848 (<i>J. Macgillivray</i>). | Capt. Stanley [P.]. |
| d. ♀ ad. sk. | Flew on board near Cape York, Oct. 6, 1848 (<i>J. M.</i>). | Capt. Stanley [P.]. |
| e. Juv. sk. | Cape York. | Mr. Cockerell [C.]. |
| f. ♂ ad. sk. | Ternate Island. | A. R. Wallace, Esq. [C.]. (Type of <i>R. torrida</i> .) |

20. *Rhipidura versicolor*.

Rhipidura versicolor, *Hartl. & Finsch*, *P. Z. S.* 1872, p. 96.

Adult. Upperparts a rich brown with a slight reddish tinge; forehead bright rufous; upper and under tail-coverts rufous; throat white, margined underneath by an irregular jugular band of pure black; pectoral plumes black, broadly margined with yellowish white; middle of abdomen whitish, sides of a paler olive-brown; under wing-coverts whitish; wing-feathers blackish brown; tail-feathers brownish black, all largely tipped with white, the four middle ones rufous at the base, the white terminal spots becoming smaller towards the middle; beak fuscous, the under mandible paler, except at the tip; feet fuscous. Total length about 5" 9", bill from front 4½", wing 2" 6", tail 3" 3", tarsus 8". (*Hartlaub & Finsch, l. c.*)

Hab. Island of Uap, Mackenzie group.

21. *Rhipidura semirubra*.

Rhipidura semirubra, *Sclater*, *P. Z. S.* 1877, p. 552.

Adult male (Admiralty Islands; *J. Murray*, *Voy. of H.M.S. Challenger*; type of species). General colour above cinnamon-rufous, including the forehead and eyebrow; wing-coverts ashy brown, with a narrow edging of cinnamon; quills dark brown, the primaries shaded with chocolate-brown, the secondaries narrowly edged with cinnamon; tail-feathers dark brown, rufous at base, tipped with ashy, inclining to a white spot on the inner web; feathers in front of and round the eye, as well as the ear-coverts, blackish; cheeks and throat white; on the lower throat a black patch, the feathers of the adjoining fore neck being black with broad white margins, the centre of the breast and of the abdomen whitish; the sides of the upper breast dusky grey; the sides of the body and flanks dull cinnamon-buff, the under tail-coverts more decidedly rufous; under wing-coverts white, with ashy bases; quills ashy brown below, with an ashy edging to the inner webs. Total length 5·8 inches, culmen 0·55, wing 2·8, tail 3·3, tarsus 0·8.

Hab. Admiralty Islands.

22. *Rhipidura semicollaris*.

Rhipidura semicollaris, *Müll. & Schl. Natuerl. Gesch. Land- u. Volkenk.* p. 184, note; *Gray*, *Gen. B.* i. p. 259; *Bp. Consp.* i. p. 323; *Wallace*, *P. Z. S.* 1863, p. 485; *Finsch*, *Neu-Guinea*, p. 169; *Gray*, *Hand-l. B.* i. p. 331, no. 4968.

Adult male. Head and neck brown, shading off on the mantle; rest of back, rump, and upper tail-coverts bay; wings ashy brown, the coverts and secondaries faintly edged with rufous, the primaries with obsolete margins of lighter brown; tail-feathers ashy brown, tipped with white, before which is a shade of lighter ash-colour, the middle feathers washed with bay near the base; forehead rufous-bay; eyelid white; lores, feathers below and in front of the eye, and ear-coverts black; cheeks, chin, and upper half of throat white; lower half of throat black, forming a patch extending upon each side of the neck; fore neck whitish, remainder of under surface light fulvous, paler in the centre of the body and deeper on the under tail-coverts; thighs brown; under wing-coverts silky white, with a fulvous tinge, clearer on the edge of the wing; quills dusky brown below, whitish along the edge of the inner web. Total length 6·2 inches, culmen 0·5, wing 2·6, tail 3·2, tarsus 0·8.

Adult female. Similar to the male. Total length 6·3 inches, wing 2·5, tail 3·1, tarsus 0·8.

Hab. Timor group of islands.

a, b. ♂ ♀ ad. sk.
c. Ad. sk.

E. Timor.
Timor.

A. R. Wallace, Esq. [C].
A. R. Wallace, Esq. [C].

23. *Rhipidura dryas*.

Rhipidura dryas, Gould, *B. Austr.* fol. i. *Introd.* p. xxxix; *Bp. Consp. Av.* i. p. 323; *Reichenb. Vög. Neuhol.* p. 286; Gould, *Handb. B. Austr.* i. p. 242; Gray, *Hand-l. B.* i. p. 330, no. 4957; Gould, *B. N. Guinea*, pt. ii.; Ramsay, *Pr. Linn. Soc. N. S. W.* ii. p. 182.

Adult (type of species). Very similar to *R. semicollaris* of Timor, but distinguished by having the brown of the back extending lower down, so as to leave only the rump and upper tail-coverts rufous, by the ear-coverts being brown instead of black, and by its buffy-white under surface, much paler than in its Timor ally. The ends to the tail-feathers are much broader and purer white. Total length 6·2 inches, culmen 0·45, wing 2·7, tail 3·45, tarsus 0·75.

Hab. Port Essington, Australia.

a. Ad. sk. Port Essington. J. Gould, Esq. (Type of species).

24. *Rhipidura rufidorsa*.

Rhipidura rufidorsa, Meyer, *Sitz. k. Akad. Wien*, lxx. p. 200; *Salvad. Ann. Mus. Civic. Genov.* vii. p. 923.

Adult female (Jobi). General colour above bright cinnamon, the head, nape, and sides of face light brown, the ear-coverts paler; over the eye a streak of rufous-buff from the base of the bill; cheeks and throat dull whitish; breast, sides of body, thighs, and under tail-coverts light fawn-buff, with a shade of ashy brown on the fore neck and sides of chest; abdomen white, slightly washed with brown; under wing-coverts fawn-buff; wing-coverts and quills dark brown externally, edged with cinnamon-rufous like the back; tail-feathers ashy-brown, edged with cinnamon-rufous near the base, and all broadly tipped with white. Total length 5·6 inches, culmen 0·4, wing 2·6, tail 2·9, tarsus 0·75. (*Mus. Civic. Genov.*)

Hab. Island of Jobi.

a. ♂ ad. sk. Ansus, Jobi, June 1873. Dr. A. B. Meyer [C.].

25. *Rhipidura lepidia*.

Rhipidura lepidia, Hartl. & Finsch, *P. Z. S.* 1868, pp. 6, 117; Gray, *Hand-l. B.* i. p. 331, no. 4975; Finsch, *Journ. Mus. Godeffr.* viii. p. 21, pl. 4. fig. 23.

Adult male. General colour above foxy rufous or deep bay, the wing-coverts like the back, the greater series internally sepia-brown; primary-coverts and primaries sepia-brown, the secondaries externally bay, the innermost almost entirely of the latter colour; tail-feathers sepia-brown, bay-coloured at the base and at the tip, forming a broad terminal band, the outer feathers externally edged with the same colour; lores and feathers round the eye blackish; ear-coverts brown; cheeks, throat, and fore neck white, with a broad band of black across the lower throat; sides of neck

ashy grey, slightly washed with rufous; rest of under surface of body, as well as the under wing-coverts, foxy rufous, like the back; quills brown below, rufous along the inner web; "iris black." Total length 6·3 inches, culmen 0·6, wing 3·25, tail 3·5, tarsus 0·95.

Adult female. Not distinguishable from the male. Total length 6·9 inches, wing 3·2, tail 3·6, tarsus 0·95.

Young. Like the adults, but with a browner head, and having a dusky-brown throat-mark washed with rufous, instead of the black spot of the adult.

Hab. Pelew Islands.

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| <i>a, b.</i> ♂ ♀ ad. st. | Pelew Islands (<i>Kubary</i>). | Museum Godeffroy. |
| <i>c.</i> Ad.; <i>d.</i> Juv. sk. | Pelew Islands. | Mr. Cohen [C.]. |

26. *Rhipidura rufa*.

Rhipidura rufa, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 923.

Adult female (type of species). General colour above cinnamon, browner on the head, deeper and more chestnut on the rump and upper tail-coverts; wing-coverts and quills brown, margined with rufous; tail brown, rufous on the outer webs of the two centre tail-feathers, the others blackish on the inner webs, rufous-brown on the outer, all the feathers with rufous shafts and broad tips of pale rufous; lores pale orange-buff; sides of face and chin dusky cinnamon; throat dull ashy; remainder of under surface pale cinnamon-buff; under tail-coverts chestnut; under wing-coverts pale cinnamon; quills dusky brown below, with light rufous edges to the inner webs. Total length 5·8 inches, culmen 0·4, wing 2·55, tail 3·4, tarsus 0·75. (*Mus. Civic. Genov.*)

Hab. North-western New Guinea; Arfak Mountains.

27. *Rhipidura cyaniceps*.

Muscipeta cyaniceps, *Cass. Pr. Philad. Acad.* 1855, p. 438; *id. U.S. Expl. Exp.* p. 145, pl. 9, fig. 1.

Rhipidura caniceps (lapsu), *Gray, Hand-l. B.* i. p. 331, no. 4966.

Philentoma cyaniceps, *Walden, Tr. Z. S.* ix. p. 182; *Sharpe, Tr. Linn. Soc. new series*, i. p. 325; *Ticeeddle, P. Z. S.* 1877, p. 693.

Adult. Head and neck slaty grey, the crown streaked with silvery cobalt down each feather; sides of face, sides of neck, and mantle dull greyish; back and scapulars chestnut; wing-coverts slaty grey with faint shaft-streaks of brighter blue, the innermost of the greater series chestnut like the back; quills blackish, the secondaries externally edged with chestnut, the innermost entirely of the latter colour; two centre tail-feathers black, the next on each side black on the inner web, chestnut on the outer, the rest of the tail chestnut; entire throat and breast slaty grey, streaked down the centre of the feathers with silvery blue; rest of the under surface deep ochraceous buff, as also the under wing-coverts; under tail-coverts light chestnut. Total length 6·2 inches, culmen 0·5, wing 3·15, tail 3·5, tarsus 0·65.

Hab. Islands of Luzon and Mindanao in the Philippine archipelago.

- a. Ad. st. Mindanao. Hugh Cuming, Esq. [P].
 b. ♂ ad. sk. Monte Alban, Luzon, March R. B. Sharpe, Esq. [P].
 1877 (*A. Everett*).

28. *Rhipidura albiventris*.

Philentoma albiventris, *Sharpe, Tr. Linn. Soc. new series*, i. p. 325;
Tweeddale, P. Z. S. 1878, p. 284.

Adult (type of species). Head and neck all round greyish blue, with lighter-coloured streaks of more silvery blue to the feathers of the forehead, throat, and fore neck; rest of the back and scapulars bright bay, some of the uppermost of the latter slightly washed with greyish blue; wing-coverts dull greyish blue like the head, the innermost of the greater series greyish on the inner web, bay on the outer; primaries blackish externally, with a slight wash of grey, the secondaries externally bright bay, the innermost having the entire outer web of this colour; two centre tail-feathers black, the two next black on the inner web, bright bay on the outer, the rest of the tail-feathers uniform bay; entire belly white, the feathers adjoining the chest more or less washed with blue-grey and distinctly streaked with white down the shaft; lower flanks slightly washed with buff; vent and under tail-coverts light bay; thighs light bay, with grey bases to the feathers. Total length 6·4 inches, culmen 0·65, wing 3·05, tail 3·45, tarsus 0·7. (*Coll. J. B. Steere*.)

Hab. Islands of Guimaras and Negros in the Philippine archipelago.

29. *Rhipidura phœnicura*.

Rhipidura phœnicura, *Müll. & Schleg. Natuurl. Gesch. Land- en Volk.*
 p. 185, note; *Gray, Gen. B.* i. p. 259; *Bp. Consp.* i. p. 323; *Gray, Hand-l. B.* i. p. 330, no. 4962.

Adult male. Head blackish, slightly shaded with grey; back brown, slightly rufescent towards the rump; the latter as well as the upper tail-coverts and tail chestnut, paler at the tip of the tail-feathers; wing-coverts like the back, the greater series and the quills deep sepia-brown, the secondaries washed externally with rufous, with which the greater coverts are also tipped; over the eye a streak of white feathers; lores, sides of face, cheeks, and chin black; throat white, widening out on the hinder part of the cheeks; across the lower throat a blackish collar; chest dull ashy; centre of body and under tail-coverts ferruginous, inclining to bay on the latter; sides of body washed with brown; under wing-coverts light ferruginous; quills dusky brown below, light rufous along the edge of the inner webs; "bill black; feet blackish; iris brown"

(Müller). Total length 6·5 inches, culmen 0·55, wing 2·7, tail 3·4, tarsus 0·7.

Hab. Java, Borneo *.

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| a. Ad. st. | Java. | Purchased. |
| b. Ad. ; c. Ad. sk. | W. Java. | A. R. Wallace, Esq. [C.]. |

30. *Rhipidura threnothorax*.

Rhipidura threnothorax, Müll. & Schleg. *Naturl. Gesch. Land- u. Volk.* p. 185, note; *Gray, Gen. B. i.* p. 259; *Bp. Consp. Av. i.* p. 323; *Sci. Pr. Linn. Soc.* 1858, p. 161; *Gray, Cat. B. New Guin.* p. 28; *Finsch, Neu-Guinea*, p. 28; *Gray, Hand-l. B. i.* p. 331, no. 4973; *Meyer, Sitz. b. Akad. Wien*, lxxix. p. 212.

Rhipidura fumosa, *Schl. N. T. D.* iv. p. 42.

Adult. General colour above light brown, duller on the lower back and rump, where the feathers have dark-brown bases; upper tail-coverts and tail blackish brown; wing-coverts and quills dark brown, edged with the lighter brown of the back; crown of head brown, a little duller than the back; from the base of the bill a very broad white streak extending above the eye and surmounted by a line of black, formed by the black tips to the superciliary feathers; in front of the eye a blackish patch; ear-coverts ashy brown; cheeks and throat pure white; fore neck and chest slaty black, with numerous ovate subterminal spots of white; rest of under surface of body dull ashy, the vent and under tail-coverts blackish; under wing-coverts and axillaries ashy, some of the former edged with white; quills brown below, with edgings of lighter brown on the inner webs; "upper mandible black, the lower one horn-white; feet black; iris brown" (*S. Müller*). Total length 7 inches, culmen 0·6, wing 3·25, tail 3·65, tarsus 0·85.

Young female (type of *R. fumosa*). General colour above dusky chocolate-brown, the rump-feathers blacker with brown edgings; wings darker brown than the back, with very narrow reddish-brown margins to the feathers; tail-feathers blackish brown; lores and sides of face dull brown; over the eye an indistinct spot of white; throat white; remainder of under surface of body dusky chocolate, becoming blacker on the lower abdomen and under tail-coverts; under wing-coverts like the breast; quills dull brown below. (*Mus. Lugd.*)

Obs. *R. fumosa* was considered to be distinct from *R. threnothorax* both by Professor Schlegel and Count Salvadori. I believe that it is the young of the latter, notwithstanding its uniform breast. The colouring of the breast varies from chocolate-brown with white spots to greyish black and entirely black, and the number and size of the spots also varies greatly, becoming apparently fewer and at the same time larger with age.

Hab. New Guinea and island of Jobi.

* This species is not included in Count Salvadori's 'Uccelli di Borneo;' but Captain Elwes possesses a specimen said to be from that island.

a. Ad. sk. New Guinea.
b. Ad. sk. Salvati.

A. R. Wallace, Esq. [C.
A. R. Wallace, Esq. [C.

31. *Rhipidura maculipectus*.

Rhipidura maculipectus, Gray, *P. Z. S.* 1858, p. 176; *Finsch, New-Guinea*, p. 169; *Gray, Hand-l. B.* i. p. 330, no. 4960; *Salvad. Ann. Mus. Civ. Genov.* vi. p. 311, ix. p. 25, et x. p. 134.

Rhipidura maculipennis (lapsu), Gray, *Cat. B. New Guin.* p. 28.

Rhipidura saturata, *Salvad. Ann. Mus. Civ. Gen.* xii. p. 323.

Adult male (type of species). General colour above dull blackish brown, the crown of head, rump, and upper tail-coverts blacker; wing-coverts slaty black, all minutely tipped with white; quills blackish brown; tail-feathers black, tipped with white, increasing in extent towards the outermost; sides of face black; from the base of the bill a distinct streak of white above the eye; chin, a broad moustache running down and widening out on the sides of the throat, white; centre of throat and under surface of body black, rather more ashy on the abdomen; feathers of the fore neck and chest subterminally spotted with white; under tail-coverts black, tipped with white; under wing-coverts and axillaries blackish, broadly edged with white; quills brown below, washed with ashy on the edge of the inner webs; "bill black, the lower mandible white; feet black" (*Wallace*). Total length 7·7 inches, culmen 0·6, wing 3·1, tail 4·0, tarsus 0·9.

Adult female. Similar to the male. Total length 7·2 inches, wing 2·8, tail 3·5, tarsus 0·8.

Obs. New-Guineæ birds have larger and more numerous white spots on the chest than those from the Aru Islands.

Young female (type of *R. saturata*). General colour above sooty black, becoming deeper black on the rump and upper tail-coverts; wings rather browner than the back; tail black, all but the two centre feathers broadly tipped with white; above the eye a white streak; lores and sides of face black; chin and sides of throat white, with black tips to many of the feathers; centre of throat and remainder of under surface of body sooty brown, deepening into black on the under tail-coverts; the breast-feathers on being parted show concealed spots of white; under wing-coverts blackish, broadly tipped with white; quills ashy blackish below. Total length 6·8 inches, culmen 0·6, wing 2·8, tail 3·9, tarsus 0·85. (*Mus. Lugd.*)

Obs. I have examined the type of *R. saturata* in the Leiden Museum. On moving the breast-feathers spots of white are plainly to be seen, and I believe it to be only the young bird of *R. maculipectus*. The bill has a blackish spot at the tip of the otherwise white under mandible; and this I take also to be a sign of youth.

Hab. Aru Islands and New Guinea.

a, b. ♂ ♀ ad. sk. Aru Islands.

A. R. Wallace, Esq. [C.].
(Types of species.)

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|------------|--------------|---------------------------|
| c. Ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. |
| d. Ad. sk. | Salwati. | A. R. Wallace, Esq. [C.]. |
| e. Ad. sk. | New Guinea. | A. R. Wallace, Esq. [C.]. |

32. *Rhipidura leucothorax*.

Rhipidura leucothorax, *Salvad. Ann. Mus. Civ. Gen.* vi. p. 311, vii. p. 820, ix. p. 25, et x. p. 134.

Adult. General colour above dark chocolate-brown, the rump more dingy; upper tail-coverts and tail blackish, all the feathers, including the two centre ones, tipped with white, the outer ones more broadly; wings dark brown, the coverts minutely tipped with white; head darker than the back; lores and sides of face blackish; over the eye a narrow line of white; chin white; cheeks and lower throat black; fore neck and chest black, with ovate subterminal spots of white; a triangular patch of white on each side of the lower throat, widening out on each side of the neck and separated by the mesial black throat which joins the fore neck; centre of body white, the feathers of the upper breast margined with smoky brown; sides of body smoky brown; thighs and under tail-coverts black; under wing-coverts white, with blackish bases; quills dark brown, with lighter brown edges to the inner webs; "bill black above, white below; feet and iris black" (*D'Albertis*). Total length 6·5 inches, culmen 0·6, wing 2·9, tail 3·5, tarsus 0·85.

Hab. New Guinea: North-west and South-eastern parts.

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| a. Ad. sk. | New Guinea. | Purchased. |
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33. *Rhipidura bourouensis*.*

Rhipidura bourouensis, *Wallace, P. Z. S.* 1863, p. 29; *Finsch, New-Guinea*, p. 169; *Gray, Hand-l. B.* i. p. 331, no. 4967.

Adult female (type of species). General colour above dark slaty grey, the crown and sides of face slaty black, with a small streak of white over the eye; sides of neck like the back; wings brown, the coverts externally washed with slaty grey, the greater series with obsolete white spots at the tip, the inner secondaries with lighter edges; tail dark brown, with a shade of slaty grey on the outer webs, the outermost feather buffy white along the outer web; throat white, the cheek-feathers black, tipped with white; breast slaty grey, the fore neck and chest with numerous ovate spots of white; sides of body slaty grey, mixed with ochre on the lower flanks; abdomen and under tail-coverts rich ochre, as also the thighs; under wing-coverts dull ochraceous, with ashy-brown bases; axillaries ashy brown, edged with ochraceous. Total length 7 inches, culmen 0·6, wing 3·4, tail 3·7, tarsus 0·65.

Hab. Island of Bouru, Moluccas.

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| a, b. ♀ ad. sk. | Bouru. | A. R. Wallace, Esq. [C.]. (Types of species.) |
| c, d. Ad. sk. | Bouru. | A. R. Wallace, Esq. [C.]. |

34. *Rhipidura cinerea*.

Rhipidura cinerea, Wallace, *P. Z. S.* 1865, p. 477; Gray, *Hand-l. B.* i. p. 331, no. 4981.

Adult (type of species). General colour above dark ashy grey, the feathers of the forehead and over the eye with blackish centres; sides of face dull blackish; above the eye a white spot; wings brown, the coverts edged with ashy; lateral rump-feathers with some silky-white plumes intermixed; upper tail-coverts dark ashy; tail brown, with brown shafts; cheeks and throat pure white; chest ashy grey, with ovate spots of white rather indistinct; centre of body and under tail-coverts white, the sides of the body ashy grey; thighs ashy; under wing-coverts white; axillaries ashy brown, with whitish edgings to the feathers. Total length 6·9 inches, culmen 0·6, wing 3·3, tail 3·4, tarsus 0·6.

Hab. Ceram.

a. Ad. sk.

E. Ceram.

A. R. Wallace, Esq. [C].
(Type of species.)

35. *Rhipidura perlata*.

Rhipidura perlata, S. Müll. *Natuurh. Gesch. Land- en Volkenk.* p. 185; Gray, *Gen. B.* i. p. 259; *Bp. Consp.* i. p. 323; Gray, *Hand-l. B.* i. p. 331, no. 4969.

Leucocerea rhombifer, Cab. *Mus. Hein.* Th. i. p. 57.

Rhipidura guttata, Gray, *Hand-l. B.* i. p. 330, no. 4961.

Rhipidura rhombifer, Gray, *Hand-l. B.* i. p. 331, no. 4978; Sharpe, *Ibis*, 1877, p. 18.

Leucocerea perlata, Salvador. *Ucc. Born.* p. 136.

Adult male. General colour above dark slate-colour, the wing-coverts coloured like the back; greater coverts and quills blackish, externally edged with slaty, the median and greater series with nearly obsolete tiny spots of white; tail black, the three outer feathers broadly tipped with white, and a slight spot of white on the fourth (often absent); lores, feathers round the eye, and ear-coverts black; above the eye a streak of black; cheeks and throat slaty blackish, with small tips or apical spots of whitish in the form of streaks; fore neck and breast also dark slate-colour, with distinct ovate spots of white, increasing in extent on the latter, and equally distinct on the sides of the neck; sides of the body also slaty grey, the spots disappearing on the flanks; centre of body and under tail-coverts white; thighs dull ashy brown; under wing-coverts and axillaries brown, edged with white; "bill black; legs dark purplish leaden; iris dark brown" (*A. Everett*). Total length 6·8 inches, culmen 0·65, wing 3·35, tail 3·65, tarsus 0·65.

Hab. Malayan peninsula, Java, Sumatra, and Borneo.

a. ♂ ad. sk.

Mount Ophir, Malacca.

A. R. Wallace, Esq. [C].

b. Ad. sk.

Java.

Purchased.

c. Ad. sk.

Sumatra.

Purchased.

d. Ad. sk.

Borneo.

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|---------------|---------------------|----------------------------|
| e. ♂ ad. sk. | Sarawak. | A. R. Wallace, Esq. [C.]. |
| f, g. Ad. sk. | Sarawak. | Governor Ussher [P.]. |
| h. ♂? ad. sk. | Tagora, May 1875. | Alfred Everett, Esq. [C.]. |
| i. ♂ ad. sk. | Bintulu, Oct. 1875. | Alfred Everett, Esq. [C.]. |
| k. Ad. sk. | N.W. Borneo. | Hugh Low, Esq. [C.]. |

36. *Rhipidura setosa*.

Muscipeta setosa, Quoy et Gaim. *Voy. de l'Astrol. Zool.* i. p. 181, pl. 4. fig. 4.

Rhipidura gularis, Müll. & Schl. *Naturl. Gesch. Land- en Volkenk.* p. 185, note; Gray, *Gen. B.* i. p. 259; *Bp. Consp.* i. p. 323; *Sclater, Pr. Linn. Soc.* ii. p. 161 (1858); *Finsch, New-Guinea*, p. 169; *Sclater, P. Z. S.* 1873, p. 696; *Salvad. Ann. Mus. Civic. Genov.* vii. p. 821, viii. p. 398, ix. p. 24.

Rhipidura isura, Gould, *P. Z. S.* 1840, p. 174; *id. B. Austr.* ii. pl. 85; Gray, *Gen. B.* i. p. 259; *Bp. Consp.* i. p. 323; *Reichenb. Vög. Neuhol.* pp. 98, 286; Gould, *Handb. B. Austr.* i. p. 242; *Finsch, New-Guinea*, p. 169.

Rhipidura setosa, Gray, *Gen. B.* i. p. 259; *id. Cat. B. Trop. Isl. Pacific Isl.* p. 17; *id. Hand-l. B.* i. p. 331, no. 4964; *Salvad. Ann. Mus. Civic. Genov.* x. p. 134; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 182.

Rhipidura superciliosa, Ramsay, *P. Z. S.* 1874, p. 604.

Adult male. General colour dark ashy grey, the head blackish, as also the sides of the face; over the eye a spot of silky white; least wing-coverts ashy, like the back; remainder of wing-coverts and quills brown, edged externally with ashy grey, hoary on the inner secondaries: upper tail-coverts blackish; tail blackish, the penultimate feather slightly tipped with white, often absent, the outermost feather broadly tipped with white, extending some distance up the outer web; malar line and throat white; a broad band of ashy grey across the fore neck and chest, some of the feathers with whitish shaft-lines: centre of body light ochraceous buff, fading into white on the under tail-coverts; sides of body ashy grey; thighs brown; under wing-coverts ashy brown, the axillaries slightly edged with whitish; quills brown below, ashy fulvous along the inner web; "bill, feet, and iris black" (*D'Albertis*). Total length 7 inches, culmen 0.6, wing 3.5, tail 3.6, tarsus 0.6.

Adult female. Similar to the male. Total length 7.2 inches, wing 3.45, tail 3.6, tarsus 0.6.

Hab. Northern Australia, New Guinea and Papuan group of islands; Waigion; New Ireland; Duke-of-York Island.

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| a, b. Ad. sk. | Duke-of-York Island. | Rev. G. Brown [C.]. |
| c, d. ♂; e, f. ♀ ad. sk. | Dorey. | A. R. Wallace, Esq. [C.]. |
| g. Ad. sk. | New Guinea. | A. R. Wallace, Esq. [C.]. |
| h. Ad. sk. | Salwati. | A. R. Wallace, Esq. [C.]. |
| i. Ad. sk. | Amberbaki, New Guinea. | A. R. Wallace, Esq. [C.]. |
| k. ♀ ad. sk. | Amberbaki, New Guinea. | M. L. Laglaize [C.]. |
| l. ♂ ad. sk. | Wamai, Arfak Mountains, Feb. 5, 1876. | M. L. Laglaize [C.]. |

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| <i>m, n.</i> ♂ ♀ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.]. |
| <i>o.</i> ♂ ad. sk. | Waigiu. | A. R. Wallace, Esq. [C.]. |
| <i>p.</i> Ad. sk. | Port Essington. | J. B. Jukes, Esq. [P.]. |
| <i>q.</i> Ad. st. | Port Essington. | Capt. Chambers [P.]. |

37. *Rhipidura assimilis*.

Rhipidura assimilis, Gray, *P. Z. S.* 1858, p. 176; *id.* *B. N. Guinea*, p. 28; *id.* *P. Z. S.* 1861, p. 434; *Finsch, Neu-Guinea*, p. 169; Gray, *Hand-l. B.* i. p. 330, no. 4959.

Adult male (type of species). General colour above light brown; wings brown, the coverts like the back, the secondaries with dull rufescent edges; upper tail-coverts slightly tinged with reddish; tail-feathers dark brown, the outermost feather externally edged with buffy white, and broadly tipped with the same; head and neck dark slaty grey, the sides of the head a little darker; from the base of the bill above the eye a distinct streak of white; cheeks and throat white; fore neck light ashy, varied with white, the feathers being white in the centre, edged with ashy; rest of under surface of body ochraceous buff, including the under wing-coverts and axillaries; sides of the body ashy brown; thighs ochraceous, with dusky brown bases; quills brown below, with a greyish shade along the inner webs. Total length 7·3 inches, culmen 0·6, wing 3·3, tail 3·6, tarsus 0·65.

Obs. The Matabello specimen is slightly larger: wing 3·55 inches.

Hab. Ké Islands and Matabello.

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| <i>a, b.</i> Ad. sk. | Ké Islands. | A. R. Wallace, Esq. [C.]. |
| | | (Types of species.) |
| <i>c.</i> Ad. sk. | Matabello. | A. R. Wallace, Esq. [C.]. |

38. *Rhipidura kordensis*.

Rhipidura kordensis, Meyer, *Sitz. k. Akad. Wien*, lxx. p. 201.

Adult male. General colour above blackish slate-colour, the head blacker; sides of face blackish brown; over the fore part of the eye a distinct spot of silky white; cheeks and throat white; fore neck and chest black, with ovate spots of white in the centre of the breast, the flanks blackish slate-colour; abdomen and under tail-coverts pure white, the feathers of the breast adjoining the black collar white, with black bases; thighs dusky grey, edged with white; under wing-coverts blackish slate-colour, edged with white; upper wing-coverts blackish slate-colour; greater series, primary-coverts, and quills browner; tail black, the two outer feathers tipped with white, the outermost one more broadly tipped and edged with white along the whole of the outer web. Total length 6·5 inches, culmen 0·6, wing 3·4, tail 3·4, tarsus 0·65.

Hab. Island of Misori in Geelvink Bay.

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| <i>a, b.</i> ♂ ♀ ad. sk. | Kordo, Misori, March 1873. | Dr. A. B. Meyer [C.]. |
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39. *Rhipidura vidua*.

Rhipidura vidua, *Salvad. & Turati, Ann. Mus. Civic. Genov.* vi. p. 313.

Adult female (Koffiao). General colour above slaty grey, the head darker; lores and sides of face slaty black; over the fore part of the eye a spot of white; throat, abdomen, and under tail-coverts white; across the breast a broad slaty-grey band, varied with ovate spots of white in the centre of the breast-band; flanks also slaty grey; under wing-coverts white, with dusky grey bases; least wing-coverts like the back; greater and median series, as well as quills, dusky brown, externally washed with slaty grey; tail-feathers blackish, shaded with slaty grey on their edges, the three outermost feathers tipped with white more broadly on the external rectrix, which has the white also extending some way up the outer web. Total length 6·3 inches, culmen 0·55, wing 3·15, tail 3·4, tarsus 0·6. (*Mus. Genov.*)

Hab. Island of Koffiao.

40. *Rhipidura obiensis*.

Rhipidura obiensis, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 987.

Adult (type of species). Above slate-colour, the head blacker; lores and sides of face blackish, with a small spot of silky white above the fore part of the eye; wing-coverts like the back, the greater series ashy brown, washed with slate-colour and minutely tipped with white; primary-coverts and quills dusky brown, edged externally with slaty grey, the inner secondaries broadly edged and tipped with white; tail (moulting) black, the outer feather broadly tipped with white, which goes up the outer web for the greater part of its extent; throat, abdomen, and under tail-coverts white; fore neck, breast, and sides of body slaty grey, the centre feathers with ovate spots of white; the under wing-coverts slaty, broadly edged with white. Total length 6·6 inches, culmen 0·55, wing 3·4, tail 3·4, tarsus 0·65. (*Mus. Civic. Genov.*)

Hab. Obi group of islands, Moluccas.

| | | |
|--------------|---------------------------|---------------------|
| a. ♀ ad. sk. | Obi Major, July 23, 1862 | Leyden Museum [P.]. |
| | (<i>Dr. Bernstein</i>). | |
| b. ♂ ad. sk. | Obi Lattoe, Aug. 9, 1862 | Leyden Museum [P.]. |
| | (<i>Dr. Bernstein</i>). | |

41. *Rhipidura rufiventris*.

Platyrrhynchos rufiventris, *Vicill. N. Dict.* xxvii. p. 21; *Pucher. Aroh. Mus.* vii. p. 359, pl. 20, fig. 2.

Rhipidura ochrogastra, *Müll. & Schl. Naturw. Gesch. Land- u. Volkenk.* p. 185, note; *Gray, Gen. B.* i. p. 259; *Bp. Consp.* i. p. 323; *Finsch, Neu-Guinea*, p. 169.

Rhipidura rufiventris, *Gray, Hand-l. B.* i. p. 331, no. 4965.

Adult male. General colour above dark slaty grey, the head, hind neck, and sides of neck slaty black; lores and sides of face blackish

brown; over the eye a white spot; least wing-coverts slaty grey, like the back; median and greater coverts dark brown, edged with slaty grey, and having minute apical tips of white; quills dark brown, with hoary-grey external margins; upper tail-coverts black; tail black, the two outer feathers tipped with white, extending nearly the whole way on the outer web of the external feather; cheeks, throat, and fore neck white, the sides of the breast greyish, the fore neck slightly washed with grey; entire breast and under surface of body, including the under wing-coverts, rich ochraceous buff, whiter on the under tail-coverts; thighs ochraceous buff, with brown bases; quills brown below, ashy along the inner webs. Total length 7·3 inches, culmen 0·65, wing 3·5, tail 3·85, tarsus 0·75.

Hab. Timor group of islands.

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|-------------------------------------|----------------|---------------------------|
| <i>a.</i> Ad. ; <i>b.</i> ♀ ad. sk. | East Timor. | A. R. Wallace, Esq. [C.]. |
| <i>c, d.</i> ♂ ad. sk. | Timor Coupang. | A. R. Wallace, Esq. [C.]. |
| <i>e.</i> ♂ ad. sk. | Semao, Timor. | A. R. Wallace, Esq. [C.]. |
| <i>f.</i> Jun. sk. | Timor. | A. R. Wallace, Esq. [C.]. |

42. *Rhipidura diluta*.

Rhipidura diluta, *Wallace, P. Z. S.* 1863, p. 491; *Finsch, Neu-Guinea*, p. 169; *Gray, Hand-l. B.* i. p. 331, no. 4963.

Adult (type of species). General colour above brown, including the head, the back slightly shaded with ashy; sides of face brown; a small white streak from the base of the bill above the eye; wing-coverts brown; quills brown, externally margined with rufous; tail brown, the three outer feathers lighter than the others, with light ashy-brown tips, increasing on the two outermost, which are ashy or smoky brown, darker brown towards the base of the inner web; cheeks and throat white; chest and sides of body light ashy brown; centre of body and under wing- and tail-coverts light ochraceous; thighs ashy brown; quills sepia-brown below, rufous along the inner webs. Total length 6·8 inches, culmen 0·55, wing 2·95, tail 3·4, tarsus 0·75.

Hab. Island of Flores.

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| <i>a, b, c.</i> Ad. sk. | Flores. | A. R. Wallace, Esq. (Types of species.) |
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43. *Rhipidura javanica*.

Muscicapa javanica, *Sparrm. Mus. Carls.* iii. pl. 75; *Horsf. Tr. Linn. Soc.* xiii. p. 146; *Raffl. t. c.* p. 312; *Sundev. Crit. om Sparrm.* p. 12.

? Le Gobe-mouche à lunettes, *Levaill. Ois. d'Afr.* iv. p. 9, pl. 152.

? *Platyrhynchus perspicillatus*, *Vieill. N. Dict. d'Hist. Nat.* xxvii. p. 14 (*ex Levaill.*).

Muscicapa umbellata, *Sundev. Ann. N. H.* xviii. p. 175.

Rhipidura javanica, *Blyth, J. A. S. B.* xii. p. 930; *Müll. & Schl. Natuurl. Gesch. Land- en Volkenk.* p. 185; *Gray, Gen. B.* i. p. 259; *Low, Sarawak*, p. 410; *Horsf. & Moore, Cat. B. Mus. F.I. Co.* i. p. 144; *Moore, P. Z. S.* 1854, p. 271; *Sclater, P. Z. S.* 1863, p. 217; *Gray, Hand-l. B.* i. p. 332, no. 4991; *Hume, Str. F.* 1874, p. 474.

Rhipidura perspicillata, *Gray, Gen. B.* i. p. 259.

Leucocerca javanica, *Blyth, Cat. B. Mus. A. S. B.* p. 206; *Bp. Consp.* i. p. 324; *Cab. Mus. Hein.* Th. i. p. 57; *Bernst. J. f. O.* 1859, p. 266; *Salvad. Ucc. Born.* p. 135; *Tweedd. Ibis*, 1877, p. 316; *Hume & Davison, Str. F.* 1878, p. 226.

Rhipidura longicauda, *Wall. P. Z. S.* 1865, p. 476.

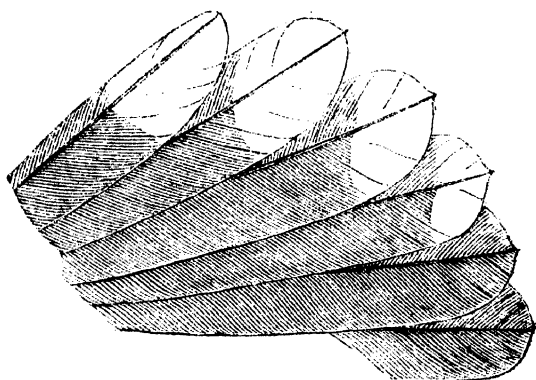
Leucocerca infumata, *Hume, Str. F.* 1873, p. 455.

Adult female (E. Java). General colour dark brown, very slightly washed with rufous on the lower back; least wing-coverts like the back; median and greater series and quills dark brown, edged and tipped with pale rufous-buff, the primaries obsoletely margined; tail dark brown, with reddish-brown shafts, all but the two centre feathers tipped with white; crown of head, sides of face, and ear-coverts ashy black; the fore part of the cheeks and chin also black; over the eye a line of white; entire throat white, extending upon the sides of the neck; across the fore neck a band of black, washed with grey on the sides; remainder of under surface yellowish white, deepening into light fawn-colour on the abdomen and under tail-coverts; thigh-feathers brown, edged with fawn-colour; sides of body brown; under wing-coverts white; axillaries dark brown, with fawn-coloured edgings; quills brown below, with ashy edges to the inner webs. Total length 7·2 inches, culmen 0·6, wing 2·85, tail 3·5, tarsus 0·75.

Young. Browner than the adults, the feathers of the upper surface obscurely edged with rufous, the wing-coverts tipped with dull rufous; eye-streak very indistinct; band across the fore neck browner than in the adult.

Obs. *Rhipidura longicauda* of Wallace is this species, and is apparently only the adult male. The latter sex I am unable to describe with certainty, not one of the series in the British Museum being determined by dissection. Mr. Wallace describes *R. longicauda* as "very near *R. javanica*, from which it differs in the longer tail, narrower white tips to only three outer tail-feathers, and the black chin." Having not only Mr. Wallace's series, but a much larger one besides in the Museum from Labuan, I am able to state positively that these differences are not specific. There is an example from Labuan exactly agreeing with the type of *R. longicauda*, and it is evidently of the same species as the other Labuan birds, which again agree with Javan examples of *R. javanica*. At the same time *R. longicauda* is probably the old male, as it is darker than the female described, has the head blacker, the hind neck washed with slaty grey, the eyebrow very distinct, the under surface white with a slight tinge of fawn-colour, the chin with a very little black, the collar on the throat intensely black, except at the sides, which are slaty grey, the lateral breast-feathers mottled, half black and half white: total length 7·5 inches, culmen 0·6, wing 3·25, tail 4·1, tarsus 0·9. The breadth of the tips to the tail-feathers varies greatly, as does also the amount of black on the chin, which depends very much on the way in which the skin is prepared.

Hab. Indo-Chinese countries, Tenasserim, and Cochin China, ranging down the Malayan peninsula to the Sunda Islands.



Half of the tail of *Rhipidura javanica* (reduced).

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| <i>a.</i> Ad. sk. | E. Java. | A. R. Wallace, Esq. [C.] |
| <i>b, c.</i> Ad.; <i>d-g.</i> Juv. sk. | W. Java (<i>E. C. Buxton</i>). | F. Nicholson, Esq. [P.] |
| <i>h.</i> Ad. sk. | Sumatra. | A. R. Wallace, Esq. [C.] |
| <i>i, k.</i> Ad. sk. | Labuan. | (Type of <i>R. longicauda</i> .) |
| <i>l.</i> Ad.; <i>m.</i> Juv. sk. | Labuan (<i>Low</i>). | R. B. Sharpe, Esq. [P.] |
| <i>n, o.</i> Ad. sk. | Labuan. | Hugh Low, Esq. [C.] |
| <i>p.</i> ♀ ad. sk. | Sarawak. | A. R. Wallace, Esq. [C.] |
| <i>q.</i> Ad. sk. | Banjermaessing. | J. Motley, Esq. [C.] |
| <i>r.</i> Ad. sk. | Penang. | A. R. Wallace, Esq. [C.] |
| <i>s.</i> ♂ ad.; <i>t.</i> Juv. sk. | Malacca. | A. R. Wallace, Esq. [C.] |
| <i>u.</i> Ad. st. | Tenasserim. | J. C. D. Packman, Esq. [P.] |
| <i>v-g.</i> Ad. sk. | Saigon, Cochin China. | M. E. Pierre [P.] |

44. *Rhipidura nigritorquis*.

Rhipidura nigritorquis, *Vigors*, *P. Z. S.* 1831, p. 97; *Gray*, *Gen. B.* i. p. 259; *Blyth*, *J. A. S. B.* xii. p. 936; *Sharpe*, *Tr. Linn. Soc.* new series, i. p. 325.

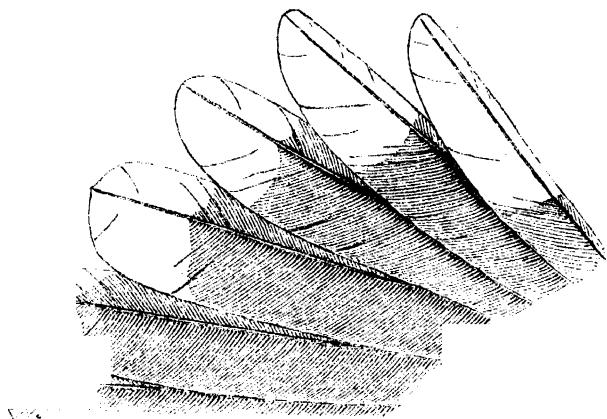
Muscicapa bambusae, *Küttl. Kupf. Vög.* p. 7, pl. 9. fig. 2; *id.* *Mém. Acad. St. Pétersb.* ii. p. 5, pl. 6.

Leucocerca javanica, *Blyth*, *Ibis*, 1865, p. 30 (*nee Sparrm.*).

Leucocerca nigritorquis, *Walden*, *Tr. Z. S.* ix. p. 182; *Ticeedd*, *P. Z. S.* 1877, pp. 693, 759, 826; *id.* *P. Z. S.* 1878, p. 109, 284, 700.

Adult male. General colour above brown, the lateral upper tail-coverts with a white bar on them; crown, lores, and sides of face blackish, the sides of the neck and hind neck greyish; over the eye a white streak; wings brown, the least wing-coverts washed with ashy grey; tail-feathers ashy brown, with reddish-brown shafts, very broadly tipped with white, occupying the terminal third of the feather; throat pure white, with no black on the chin; across the lower throat a broad band of black, washed with grey on the sides; rest of under surface of body pale ochraceous buff, the sides of the body brown; thighs brown, edged with white; under wing-coverts brown,

with white edgings ; “ bill black ; legs black ; iris very dark brown ” (*A. Everett*). Total length 7·2 inches, culmen 0·55, wing 3·3, tail 4, tarsus 0·85.



Half of the tail of *Rhipidura nigritorquis* (reduced).

Hab. Philippines: islands of Luzon, Cebu, Mindanao, Dinagat, Negros, Bohol, and Palawan.

a. ♂ ad. sk. Puerto Princesa, Palawan. Prof. J. B. Steere [C.].

45. *Rhipidura pectoralis*.

Rhipidura fusciventris, *Sykes*, *P. Z. S.* 1832, p. 85 (*nec Frankl.*); *cf. Blyth, Ibis*, 1865, p. 42.

Leucocerca pectoralis, *Jerd. Ill. Ind. Orn.* text to pl. ii.; *Blyth, J. A. S. B.* xii. p. 935 (1843); *id. Cat. B. Mus. A. S. B.* p. 206; *Bp. Consp.* i. p. 323; *Jerd. B. Ind.* i. p. 453; *Butler, S. F.* 1875, p. 466; *Hume, Nests & Eggs Ind. B.* p. 203; *id. S. F.* 1876, pp. 415, 421.

Rhipidura pectoralis, *Gray, Gen. B.* i. p. 258; *id. Hand-l. B.* i. p. 331, no. 4986.

Muscipeta leucogaster, *Cuv. Mus. Paris*; *Pucher. Arch. Mus.* vii. p. 333 (1854).

Leucocerca leucogaster, *Blyth, Ibis*, 1866, p. 371; *Fairb. Str. F.* 1876, p. 257.

Adult. General colour above earthy brown, the head blackish, as also the sides of the face and ear-coverts; over the eye a very broad streak of white from the base of the bill; wing-coverts like the back, the median series slightly tipped with fulvous spots; quills brown, rather more ashy brown on their edges; tail ashy brown, becoming rather paler towards the tips of the feathers, which are buffy white, the latter colour more extended on the outer feathers; chin black; throat white, some of the feathers with obsolete blackish margins; rest of under surface of body creamy buff, deeper on the under tail-coverts, separated from the throat by a black collar across the lower throat: the sides of the breast blackish also, the lower part of the black barred with half-concealed ovate spots of

white; thighs brown; axillaries brown, externally ochraceous; under wing-coverts whitish, with dusky bases to the feathers: "bill and feet black; iris dark brown" (*Serdon*). Total length 7 inches, culmen 0.45, wing 2.85, tail 3.85, tarsus 0.75.



Half of the tail of *Rhipidura pectoralis* (reduced).

Hab. Southern India.

a. Ad. sk. India.

b. Ad. sk. Godavery Valley, near Dunga- W. T. Blanford, Esq. [*P.*].
gudium, April 16, 1871.

46. *Rhipidura layardi*.

Rhipidura albogularis, *Layard*, *P. Z. S.* 1875, pp. 29, 434 (*nee Less.*);
Finsch, *P. Z. S.* 1876, p. 20; *id.* *Journ. Mus. Godeffr.* Heft xii.
p. 9.

Rhipidura albicollis (*nee V.*), *Layard*, *P. Z. S.* 1876, p. 493.

Rhipidura layardi, *Salvad.* *Ibis*, 1877, p. 143.

Adult male. General colour above smoky brown, the upper tail-coverts darker; head and neck more ashy brown, slightly varied with nearly obsolete darker markings on the tips of the feathers; sides of face also ashy brown, with a distinct streak of white from the base of the nostrils to above the eye; behind the eye an indistinct whitish streak running above the ear-coverts; wing-coverts smoky brown, with a few tiny spots of white at the tips of some of the median and greater coverts, which are rather darker brown like the quills, the innermost secondaries washed with smoky brown like the back: tail-feathers blackish brown, the four outer ones on each side tipped with white, increasing in extent towards the outermost, which is also externally white, the shafts of all blackish, excepting for the white tips on the outer feathers, which are accompanied by a white shaft; cheeks and throat dull whitish, unspotted; fore neck white, with broad black centres to the feathers, imparting a broadly streaked appearance to this part and the breast, which is, like the rest of under surface, ochraceous buff, broadly streaked with black, the

streaks becoming browner and narrower towards the abdomen, which is unspotted; sides of body brown; thighs brown; under tail-coverts white, the longer ones dull brown with whitish tips; under wing-coverts and axillaries brown, with light ochraceous or whitish edgings; "bill black; legs dark brown; iris brown" (*Layard*). Total length 6·5 inches, culmen 0·45, wing 3·2, tail 3·65, tarsus 0·75.

Young. Coloured as in adult, but much duller, with the back washed with rusty and with rust-coloured edges to the wing-coverts and secondaries; below, the streaks much more obscure; white streaks on the sides of the head indistinct.

Hab. Fiji group of islands: Ovalau, Viti Levu.

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|---------------|------------------------------------|--------------------------|
| a. ♂ ad. sk. | Ovalau, Nov. 4, 1874 | R. B. Sharpe, Esq. [P.]. |
| | (<i>E. L. Layard</i>). | |
| b. ♀ juv. sk. | Ovalau, Dec. 10, 1874. | R. B. Sharpe, Esq. [P.]. |
| c. ♂ ad. sk. | Viti Levu (<i>Kleinschmidt</i>). | Godeffroy Museum. |

47. *Rhipidura erythronota*. (Plate X. fig. 1.)

Rhipidura albicollis, *Layard, Ibis*, 1876, p. 392 (pt.).

Adult female. Similar to *R. layardi*, from Ovalau and Viti Levu, but differing in its rufous back (not to be confounded with the young plumage of *R. layardi*); wing-coverts and quills blackish brown, externally slightly washed with the same colour as the back, some of the median and greater coverts with remains of whitish tips; under surface of body as in *R. layardi*, but rather richer ochraceous, the black streaks few in number, broader and not extending below the upper breast; under wing-coverts rufous; tail as in *R. layardi*. Total length 6·1 inches, culmen 0·5, wing 3·2, tail 3·5, tarsus 0·85.

Hab. Fiji group; island of Vanua Levu.

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|---------------|-------------------------------|-------------------|
| a. ♀ ad. sk. | Vanua Levu, Oct. 23, 1875 | Godeffroy Museum. |
| | (<i>Kleinschmidt</i>). | |
| b. Ad. sk. | Savu Savu Bay, Feb. 3, 1877. | Dr. Smith [C.]. |
| c. ♀ juv. sk. | Savu Savu Bay, Jan. 17, 1877. | Dr. Smith [C.]. |

48. *Rhipidura rufilateralis*. (Plate X. fig. 2.)

Rhipidura albicollis, *Layard, Ibis*, 1876, pp. 149, 392 (pt.).

Adult male. Resembling *R. erythronota* in having the upper surface rufous-brown, but the head only a little duller than the back, whereas in both species from the other Fiji islands the head is ashy and contrasts with the back. Underneath, the white of the throat occupies also the fore neck and chest, the dusky spots being few in number, terminal and triangular, and not continuing upon the abdomen, which is rufous like the flanks and under wing-coverts; thighs rufous; under tail-coverts white: "bill black, the lower mandible white; legs horn-brown; iris brown" (*E. L. Layard*). Total length 5·7 inches, culmen 0·5, wing 2·75, tail 3·1, tarsus 0·75.

Obs. This is a smaller species than the other rufous-back Fijian *Rhipidurae*; and I may mention, in case it may be supposed to be an

immature bird, that the description is taken from a male marked "breeding" by Mr. Layard, and that the other specimens in the Museum appear to be equally adult.

Hab. Fiji group; island of Taviuni.

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|--------------|--|--------------------------|
| a. ♂ ad. sk. | Ngila, Taviuni, July 17, 1875. | E. L. Layard, Esq. [C.]. |
| b. ♂ ad. sk. | Ngila, Aug. 10, 1875. | E. L. Layard, Esq. [C.]. |
| c. ♂ ad. sk. | Taviuni, April 8, 1875 (E. L. Layard). | Rev. S. J. Whitmee. |
| d. ♂ ad. sk. | Taviuni, Nov. 1875 (Klein-schmidt). | Godeffroy Museum. |

49. *Rhipidura hyperythra*.

Rhipidura rufiventris (nec Vieill.), Müll. & Schl. *Verh. Naturh. Gesch. Land- u. Volkenk.* p. 185, note; Gray, *Gen. B.* i. p. 259; *Bp. Consp.* i. p. 323; *Sclater, Pr. Linn. Soc.* 1858, p. 161; *Finsch, Neu-Guinea*, p. 169.

Rhipidura hyperythra, Gray, *P. Z. S.* 1858, p. 176; *id. Cat. B. New Guinea*, p. 28; *Finsch, Neu-Guinea*, p. 169; *Gray, Hand-l. B.* i. p. 331, no. 4977; *Sclater, P. Z. S.* 1873, p. 606.

Rhipidura, sp., *Gray, Hand-l. B.* i. p. 331, no. 4976.

Rhipidura muelleri, Meyer, *Sitz. b. Akad. Wien*, lxxix. p. 502; *Salvad. Ann. Mus. Civic. Genov.* x. p. 135.

Adult (type of species). General colour above slaty grey, a little darker on the crown and sides of the head, the lores and feathers round the eye blackish; over the eye a distinct white streak, and a second narrow line of white above the upper edge of the ear-coverts less distinctly indicated; cheeks, chin, and moustache white; centre of throat black, widening out upon the lower throat; rest of under surface of body orange-rufous, slightly paler towards the lower abdomen and vent; thighs slaty grey; under wing-coverts pale orange-buff; quills ashy below, whitish along the inner webs; wings above resembling the back, the greater series and secondaries brown, washed externally with grey, the primaries entirely brown; median and greater coverts tipped with buff or whitish spots; tail slaty black, the three outer feathers tipped with white, with an obscure subterminal band of dull brown: "bill black, the lower mandible yellow; feet dusky olive" (*Wallace*). Total length 6.4 inches, culmen 0.5, wing 2.8, tail 3.2, tarsus 0.65.

Hab. Aru Islands and N.W. New Guinea.

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| a. Ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. (Type of species.) |
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50. *Rhipidura albifrontata*.

Rhipidura albifrontata, *Frankl. P. Z. S.* 1831, p. 116; *Blyth, J. A. S. B.* xii. p. 935; *Gray, Gen. B.* i. p. 258; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 145; *Gray, Hand-l. B.* i. p. 331, no. 4985.

Rhipidura aureola, *Less. Traité*, p. 390; *Pucher. Arch. Mus.* vii. p. 373.

Leucocerea albifrontata, *Jerd. Madr. Journ.* xi. p. 12; *id. Ill. Ind. Orn.* pl. 2; *Blyth, Cat. B. Mus. A. S. B.* p. 206; *Bp. Consp.* i. p. 324; *Blyth & Wald. B. Burm.* p. 132; *Hume, Nests and Eggs*,

Ind. B. p. 201; *Bull. Str. F.* 1874, p. 404; *Butler, S. F.* 1875, p. 467; *Fairb. S. F.* 1876, p. 257; *Hume & Davison, S. F.* 1877, p. 225.

Leucocerea compressirostris, "*Blyth*," *Jerd. B. Ind.* i. p. 453; *Blyth, This*, 1866, p. 370.

Rhipidura compressirostris, *Gray, Hand-l. B.* i. p. 331, no. 4988.

Leucocerea aureola, *Blyth, This*, 1866, p. 370; *Adam, Str. F.* 1873, p. 377; *Cock & Marsh. t. c.* p. 352; *Hume, t. c.* pp. 178, 436, et 1875, p. 104.

Adult male. General colour above ashy brown; wing-coverts like the back, all, including the primary-coverts, terminally tipped with triangular spots of white; quills brown, externally edged with ashy brown, the secondaries with hoary white; tail-feathers brown, all but the two centre ones tipped with white, which increases in extent towards the outermost, on which it occupies more than the terminal half and the entire outer web; crown of head slaty black, as also the lores and sides of face; a broad frontal band and the sides of the crown white; cheeks and throat white, with black bases to the feathers, the plumes of the lower throat less broadly edged with white, so that it appears blacker; rest of under surface of body pure white, including the under wing-coverts; axillaries dark brown, edged with whitish; thighs white, with brown bases; "bill and legs black; iris deep brown" (*Jerdon*). Total length 6·7 inches, culmen 0·5, wing 3·15, tail 3·6, tarsus 0·75.

Adult female. Similar to the male, but browner and rather less ashy. Total length 6·7 inches, culmen 0·45, wing 3·35, tail 3·65, tarsus 0·75.

Young. Differs from the adult in having rusty margins to the feathers of the upper surface, especially the wing-coverts, and in having the white under surface slightly washed with rusty.

Hab. India and Ceylon, extending into Sindh to the westward, and eastward through Burmah to Pegu.

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|------------------------------------|--|--------------------------------|
| <i>a.</i> Ad. st. | Behar. | B. H. Hodgson, Esq. [P.]. |
| <i>b.</i> Ad. sk. | India. | Zoological Society. |
| <i>c.</i> Ad., <i>d.</i> ♀ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>e.</i> Ad. sk. | Rawul Pindee. | Capt. T. Biddulph [C.]. |
| <i>f, g.</i> Ad. sk. | Deyra. | Capt. T. Biddulph [C.]. |
| <i>h.</i> Ad. sk. | Gondul, Kattiawar, Nov. 28, 1871. | Major J. Hayes Lloyd [P.]. |
| <i>i.</i> Juv. sk. | Sheenogah district, Mysore, April 4, 1875. | Capt. C. H. T. Marshall [P.]. |
| <i>k.</i> Ad. sk. | Malabar. | Purchased. |
| <i>l.</i> Ad. sk. | Madras. | Rev. H. H. Baber [C.]. |
| <i>m.</i> Ad. sk. | Mahabaleshwar hills. | Colonel Sturt [P.]. |
| <i>n.</i> ♂ ad. sk. | Upper defile of the Iravady, March 1875. | Dr. J. Anderson [C.]. |

51. *Rhipidura tricolor*.

Muscicapa tricolor, *Vieill. N. Dict. d'Hist. Nat.* xxi. p. 490; *Pucher. Rev. Zool.* 1865, p. 15.

- Rhipidura motacilloides*, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 248; *Gould, B. Austr.* fol. ii. pl. 86; *Gray, Gen. B.* i. p. 259; *Bp. Consp.* i. p. 323; *Reichenb. Vög. Neuhol.* pp. 224, 286; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 146; *Finsch, Neu-Guinea*, p. 169; *Gray, Hand-l. B.* i. p. 332, no. 4993.
- Muscipeta melanoleuca*, *Quoy et Gaim. Voy. de l'Astrol.*, Zool. i. p. 180.
- Leucocerca laticauda*, *Sicains. Monogr. Flyc.* p. 130, pl. 11.
- Rhipidura picata*, *Gould, B. Austr. folio*, Intr. p. xxxix; *Bp. Consp.* i. p. 323; *Reichenb. Vög. Neuhol.* p. 286; *Gray, Hand-l. B.* i. p. 332, no. 4994.
- Rhipidura melanoleuca*, *Gray, Gen. B.* i. p. 259; *id. Hand-l. B.* i. p. 332, no. 4995.
- Sauloprocta melanoleuca*, *Cab. Mus. Hein.* Th. i. p. 57, note.
- Sauloprocta motacilloides*, *Cab. Mus. Hein.* Th. i. p. 57; *Gould, Handb. B. Austr.* i. p. 244; *Ramsay, Proc. Linn. Soc. N. S. W.* ii. p. 182.
- Sauloprocta picata*, *Cab. Mus. Hein.* Th. i. p. 57, note; *Gould, Handb. B. Austr.* i. p. 246; *Ramsay, Proc. Linn. Soc. N. S. W.* ii. p. 182.
- Sauloprocta laticauda*, *Cab. Mus. Hein.* Th. i. p. 57, note.
- Rhipidura mimoides*, *Müller, MS.*, unde *Gray, P. Z. S.* 1858, p. 175; *Finsch, Neu-Guinea*, p. 169; *Gray, Hand-l. B.* i. p. 332, no. 4997.
- Rhipidura atripennis*, *Gray, P. Z. S.* 1858, p. 175; *id. Cat. B. New Guinea*, p. 29; *Finsch, Neu-Guinea*, p. 169; *Gray, Hand-l. B.* i. p. 332, no. 4996.
- Rhipidura tricolor*, *Gray, Cat. B. Trop. Isl. Pacific Ocean*, p. 17; *Wall. P. Z. S.* 1863, p. 29; *Gray, Hand-l. B.* i. p. 332, no. 4998.
- Rhipidura laticauda*, *Gray, Hand-l. B.* i. p. 332, no. 4999.
- Sauloprocta tricolor*, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 819, ix. p. 24.

Adult male. General colour above black, the least wing-coverts and scapulars like the back; remainder of wing-coverts brown, tipped with pale fawn-buff; quills brown, the inner secondaries blacker, like the back; tail black; sides of face, throat, fore neck, and sides of breast black; over the eye a narrow black line; some of the throat-feathers with whitish edgings; remainder of under surface white; thighs black; under wing-coverts black, edged with white; lower surface of quills ashy brown; "bill and feet black; iris black" (*Gould*). Total length 7·8 inches, culmen 0·6, wing 3·65, tail 4·25, tarsus 1.

Obs. The description is taken from a South-Australian specimen of *R. motacilloides*; and between this and *R. melanoleuca* there seems to be absolutely no difference except that of size. Mr. Gould has described a third form, *R. picata*, from North Australia, which forms a smaller race. I propose to keep these birds under one specific name, separating them in the list of specimens according to locality, and I give the length of the wing in each case. It will be seen that the specimens of *R. motacilloides* have the wing ranging from 3·65 to 3·95 inches, *R. picata* 3·45 to 3·75, *R. melanoleuca* 3·9 to 4·25. In face of these facts, how can three species be recognized? The extent of the black on the throat varies, and is apparently influenced by the preparation of the skin; and there is great difference in the distinctness of the white eyebrow and of the white edgings to the cheek-plumes, even in skins from the same locality.

Hab. Australia, Molucca Islands, New Guinea and Aru Islands, Solomon Islands, New Ireland.

a. *R. motacilloides*.

| | | |
|--------------|---------------|---|
| a. Ad. sk. | Australia. | Linnean Society [P.]. (Type of <i>R. motacilloides</i> .) (Wing 3·8.) |
| b. Ad. st. | Australia. | (Wing 3·95.) |
| c. ♂ ad. sk. | S. Australia. | Sir George Grey [P.]. (Wing 3·65.) |
| d. Ad. sk. | Australia. | Sir D. Cooper [P.]. (Wing 3·95.) |

b. *R. picata*.

| | | |
|--------------|-----------------------------------|--------------------------------------|
| e. Ad. st. | Port Essington. | Capt. Chambers [P.]. (Wing 3·65.) |
| f. Ad. sk. | Port Essington. | J. B. Jukes, Esq. [P.]. (Wing 3·65.) |
| g. ♀ ad. sk. | Depôt, N.W. Australia, Nov. 1855. | J. R. Elsey, Esq. [P.]. (Wing 3·6.) |
| h. ♀ ad. sk. | Victoria River, Nov. 1855. | J. R. Elsey, Esq. [P.]. (Wing 3·45.) |
| i. Ad. sk. | Port Moresby, S.E. New Guinea. | O. C. Stone, Esq. [C.]. (Wing 3·75.) |

c. *R. melanoleuca*.

| | | |
|-----------------|--|---|
| k. ♂ ad. sk. | Wanga, San Christoval, Solomon Islands, Aug. 1865. | J. Brenchley, Esq. [P.]. (Wing 4·15.) |
| l. Ad. st. | New Ireland. | Sir E. Belcher [P.]. |
| m. Ad. sk. | Salwati. | A. R. Wallace, Esq. [C.]. (Wing 4·15.) |
| n. Ad. sk. | Salwati. | A. R. Wallace, Esq. [C.]. (Wing 3·9.) |
| o. Imm. sk. | New Guinea. | Sir E. Belcher [P.]. (Wing 3·9.) |
| p. ♂ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. (Wing 3·95.) |
| q, r. ♀ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. (Wing 3·9-4·0.) |
| s. ♂ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.]. (Wing 4·25.) |
| t. ♀ ad. sk. | Waigiu. | A. R. Wallace, Esq. [C.]. (Wing 4·05.) |
| u. Ad. sk. | Goram. | A. R. Wallace, Esq. [C.]. (Wing 4·1.) |
| v. ♀ ad. sk. | Bouru. | A. R. Wallace, Esq. [C.]. (Wing 3·95.) |
| w. Ad. sk. | Ceram. | A. R. Wallace, Esq. [C.]. (Wing 4·05.) |
| x. Ad. sk. | Amboyna. | A. R. Wallace, Esq. [C.]. (Wing 4·25.) |
| y. Ad. sk. | Amboyna. | Purchased. (Wing 4.) |
| z. ♀ ad. sk. | Gilolo. | A. R. Wallace, Esq. [C.]. (Wing 4·2.) |
| a'. ♂ ad. sk. | Batchian. | A. R. Wallace, Esq. [C.]. (Wing 4·05.) |

| | | |
|----------------------|-----------|---|
| <i>b</i> . Ad. sk. | Batchian, | A. R. Wallace, Esq. [C.], (Wing 3·95.) |
| <i>c</i> . ♀ ad. sk. | Ternate. | A. R. Wallace, Esq. [C.], (Wing 4·15.) |
| <i>d</i> . Ad. sk. | Ternate. | Purchased. (Wing 4·25.) |

46. **NEOMYIAS.**

Rhipidura (pt.), *auct. recent.*



Foot of *Neomyias euryura*.

Range. Confined to Java and Borneo.

1. **Neomyias euryura.**

Rhipidura euryura, *S. Müll. Naturh. Gesch. Land- u. Volkenk.* p. 185, note; *Gray, Gen. B.* i. p. 259; *Bp. Consp.* i. p. 323; *Gray, Hand-l. B.* i. p. 331, no. 4987.

Leucocerca euryura, *Salvad. Ucc. Born.* p. 136.

Adult female. General colour above bluish slate-colour, the wing-coverts like the back; greater series and quills blackish, edged with slaty blue, like the back: tail blackish, the two outer feathers tipped with white, confined to the outer web on the penultimate one; a broad line of white from the base of the bill above the eye; lores, feathers round the eye, and sides of face blackish; throat, breast, and sides of body bluish slaty, rather duller than the back, the centre of the abdomen and under tail-coverts white; thighs brown; under wing-coverts brown, with white edges; axillaries bluish slaty, like the breast. Total length 7·5 inches, culmen 0·65, wing 3·25, tail 3·8, tarsus 0·6.

Hab. Java and Borneo.

| | | |
|----------------------|----------|---------------------------|
| <i>a</i> . Imm. sk. | Java. | E. Wilson, Esq. [P.]. |
| <i>b</i> . ♀ ad. sk. | W. Java. | A. R. Wallace, Esq. [C.]. |
| <i>c</i> . Ad. sk. | Borneo. | Purchased. |

47. **ZEOCEPHUS.**

Zeocephus, *Bp. C. R.* xxxviii. p. 652 (1854)

Type.
Z. rufus



Head of *Zeocephus rufus*.

Range. Confined to the Philippine Islands.

Key to the Species.

- a.* General colour of plumage cinnamon-red above and below.
a'. Belly cinnamon, like the breast *rufus*, p. 343.
b'. Belly white..... *cinnamomeus*, p. 343.
b. General colour greyish cobalt above and below ;
 lores, a narrow frontal line, and chin-spot black *cyanescens*, p. 343.

1. *Zeocephus rufus*.

Tchitrea rufa, *Gray, Ann. N. H.* xi. p. 371 ; *id. & Mitch. Gen. B.* i. p. 260, pl. 64 ; *Bp. Consp.* i. p. 325 ; *id. Hand-l. B.* i. p. 334, no. 5025.

Zeocephus rufus, *Bp. Comptes Rendus*, xxxviii. p. 652 ; *Cass. U. S. Expl. Exp.* p. 144 ; *Walden, Tr. Z. S.* ix. p. 183 ; *Sharpe, Tr. Linn. Soc.* new series, i. p. 328.

Adult (type of species). General colour above and below rich cinnamon-rufous or bright chestnut : quills inclining to brown at the tips of the inner webs ; tail entirely deep chestnut, the centre feathers elongated, the tail graduated ; round the eye a distinct wattle. Total length 7·4 inches, culmen 0·75, wing 3·4, tail 3·95, tarsus 0·7.

Hab. Island of Luzon, Philippines.

- | | | |
|-------------------|------------------|---|
| <i>a.</i> Ad. st. | Cataguan, Luzon. | Hugh Cuming, Esq. [C.]. (Type of species.) |
| <i>b.</i> Ad. sk. | Cataguan, Luzon. | Hugh Cuming, Esq. [C.]. |

2. *Zeocephus cinnamomeus*.

Zeocephus cinnamomeus, *Sharpe, Tr. Linn. Soc.* new series, i. p. 329, pl. 48, fig. 1.

Adult male (type of species). General colour above and below clear bright cinnamon, the scapulars and wing-coverts uniform with the back ; primary-coverts and quills blackish brown, externally light cinnamon and having the inner web edged with the same colour for the greater part of its length ; tail deep chestnut, the four centre feathers brownish at tip ; lower surface of body rather brighter than the upper, the abdomen whitish ; round the eye a wattled eyelid ; " iris dark " (*Steere*). Total length 7·5 inches, culmen 0·75, wing 3·4, tail 3·35, tarsus 0·7. (*Coll. J. B. Steere*.)

Hab. Island of Basilan, Philippines.

3. *Zeocephus cyanescens*.

Zeocephus cyanescens, *Sharpe, Tr. Linn. Soc.* new series, i. p. 328, pl. 48, fig. 2.

Adult male (type of species). General colour greyish cobalt or smalt-blue, the back a little duller than the head and under surface of the body, which are rather brighter ; quills blackish brown, externally washed with the same colour as the back, the innermost secondaries entirely greyish ; middle tail-feathers also dull blue-grey, the remainder blackish brown, externally washed with the same

blue-grey; a narrow frontal line, lores, a spot at the base of the lower mandible, and the chin black; wattled eyelid bright blue; bill bright blue, inside of mouth and tongue leaf-green; iris black. Total length 8·5 inches, culmen 0·85, wing 3·85, tail 4·25, tarsus 0·75. (*Coll. J. B. Steere.*)

Hab. Island of Palawan, Philippines.

48. TERPSIPHONE*.

Type.

Muscivora (pt.), *Cuvier, Leçons Anat. Comp.* tabl. ii.

Muscipeta (pt.), *id. Règne Anim.* i. p. 345 (1817).

Terpsiphone, *Gloger, in Froriep's Notiz.* xvi. p. 278 (1827) T. paradisi.

Tehitrea, *Less. Traité d'Orn.* p. 386 (1831) T. paradisi.



Bill of *Terpsiphone paradisi*.

Range. From Africa and Madagascar to India, Ceylon, and the Burmese countries, through China to Japan; Malayan peninsula; Java; Sumatra; Borneo; Flores.

Key to the Species.

- a. Tail white, with more or less of black margins.
 - a'. Under surface of body white.
 - a". Larger; culmen not less than 0·8 inch; tail exceeding 12 inches in length.
 - a''''. Occipital crest long and pointed, reaching in prepared skin as far as the mantle; feathers not black-shafted *paradisi* ♂, p. 346.
 - b''''. Occipital crest moderate and restricted, forming a dense circular crest not produced beyond the nape; feathers black-shafted, including the long tail-plumes *affinis* ♂ ad., p. 349.

* Cuvier's genus *Muscivora* was a composite one, and intended to embrace not only some broad-billed Flycatchers of the Old World, but also some of the New World Tyrant-Flycatchers. *Muscipeta* of Cuvier, 1817, was intended by him to replace his *Muscivora* of 1799; but the name could not then be used, as it was preoccupied by *Muscipeta* of Koch, 1816, proposed for the Reed-Warblers of Europe. *Muscivora* is now restricted to the Crested Tyrants of the New World (*M. regia*, &c.); and it is therefore quite proper to employ the name *Terpsiphone* of Gloger for the Paradise Flycatchers, which formed the Old-World section of Cuvier's original genus *Muscivora*.

b''. Smaller; culmen not exceeding 0·6 inch; tail about 7 inches in length *mutata* ♂ ad., p. 353.

b'. Under surface of body slaty grey, metallic green on the throat *cristata* ♂ ad., p. 356.

b. Tail chestnut like the back.

c'. Under tail-coverts orange or light rufous-buff.

c''. Abdomen orange, like the breast.

c'''. Throat orange, like the rest of the under surface.

a⁴. Crown only steel-green, forming a well-defined cap.

a⁵. Tail 6·7 inches long *mutata* ♂, p. 352.

b⁵. Tail 3·25 inches long *mutata* ♀, p. 352.

b⁴. Crown and nape steel-green *vulpina*, p. 353.

d''. Throat glossy black; rest of under surface orange.

c⁴. Crest elongated and surpassing the nape, metallic steel-green. *rufiventris* ad., p. 360.

d⁴. Crest velvety, the feathers not elongated, purplish black *nigriceps* ad., p. 359.

d'. Abdomen buff or buffy white.

c'''. Throat and breast grey, without steely gloss; head steel-green.

e⁴. Tail 8·2 inches long *affinis* ♂ imm., p. 349.

f⁴. Tail 4·15 inches long *affinis* ♀ ad., p. 349.

f''. Throat and breast grey, with steely gloss; head purplish *princeps* ♀, p. 361.

e'. Abdomen grey, like the breast.

g'''. Throat glossed and blacker than the breast.

g⁴. Culmen 0·7 inch long; throat and side of face glossy, but not more ashy than the crown of head .. *incii* ♂ imm., p. 351.

h⁴. Culmen 0·65 inch long; sides of face and throat equally glossy as the crown *cristata* ♀ imm., p. 355.

h'''. Throat uniform with breast and scarcely any perceptible gloss.. *cristata* ♀ ad., p. 355.

d'. Under tail-coverts white.

f''. Throat glossy, exactly like the crown.

i'''. Primary quills blackish, externally edged with rufous.

i⁴. Breast and flanks grey; centre of abdomen whitish.

e⁵. Back and tail maroon; inner secondaries with black centres *incii* ♂ ad., p. 350.

d⁵. Back and tail bright chestnut, as also the inner secondaries, which have no black shafts *perspicillata* ♂ ad., p. 358.

k⁴. Under surface from lower throat downwards pure white [p. 362. *corvina* ♀ et ♂ juv.,

k'''. Primary-quills chestnut, somewhat shaded with brown at tip of inner web.

l⁴. Hind neck gloss steel-green, like sides of head and throat *paradisi* ♂ imm., p. 348.

- m*¹. Hind neck chestnut like the back; head and nape only glossy steel-green *erythroptera* ♂ ad., p. 357.
- q*². Throat grey, only a little darker than the breast.
- l*³. Throat distinctly glossed.
- n*⁴. Quills black, edged with chestnut.
- e*⁵. Entire breast grey, only the lower abdomen white; culmen 0·7 inch *affinis* ♂ juv., p. 350.
- f*⁶. Breast grey; entire abdomen white; culmen 0·85 inch .. *incii* ♀ ad., p. 351.
- o*⁷. Quills rufous-brown at end of inner web *erythroptera* ♀ ad., p. 357.
- m*⁸. Throat grey like breast, without any gloss at all.
- p*⁹. Head metallic steel-green, as well as a long occipital crest.. *paradisi* ♀ ad., p. 347.
- q*¹. Head dull greyish, with a slight gloss.
- a*⁶. Tail 3·2 inches *perspicillata* ♀ ad., p. 358.
- b*⁶. Tail 4·5 inches *perspicillata* ♂ juv., p. 358.
- c*. Tail grey, a little darker than the back, which is also grey..... *tricolor*, p. 359.
- d*. Tail black.
- e*. Under tail-coverts white, like the abdomen; back maroon; head and throat purplish *princeps*, p. 361.
- f*. Under tail-coverts grey, like the abdomen and breast; back chestnut; head and throat glossy steel-black; secondaries edged with white..... *cristata* ♂ imm., p. 355.
- g*. Under tail-coverts glossy black, like the abdomen.
- h*². Indigo-black, the feathers of the head velvety; tail 10·5 inches *corvina* ♂ ad., p. 362.
- i*². Greenish black, the feathers of the head tipped with glossy steel-green, giving a scaled appearance *atrachalybea* ♂ ad., p. 362.

1. *Terpsiphone paradisi*.

- The Pyed Bird of Paradise, *Edwards, Nat. Hist. Birds*, iii. pl. 113.
- Le Gobe-mouche blanc hupé du Cap de Bonne Espérance, *Briss. Orn.* ii. p. 414, pl. 41. fig. 1* ; *Daubent. Pl. Enl.* v. pl. 234.
- La Pie de l'isle Papou, *Briss. t. c.* p. 45.
- Muscicapa paradisi*, *Linn. Syst. Nat.* i. p. 324 (*ex Briss.*).
- Paradise Flycatcher, *Lath. Gen. Syn.* ii. p. 345.
- Le Gobe-mouches Tchitrec-bé roux, *Levaill. Ois. d'Afr.* iii. pl. 144 ; *Sundev. Crit. om Levaill.* p. 40.
- Le Gobe-mouches Tchitrec-bé blanc, *Levaill. Ois. d'Afr.* iii. pl. 145 ; *Sundev. t. c.* p. 40.
- Le Tchitrec-bé, *Levaill. Ois. d'Afr.* iii. pl. 146 ; *Sundev. t. c.* p. 40.

* Probably drawn from a specimen of *T. affinis*, judging from the black shaft-lines distinctly indicated in the dorsal feathers.

Muscicapa paradisi, *Cuvier, Règne Anim.* 1817, i. p. 344, note; *Sykes, P. Z. S.* 1832, p. 84; *Jerd. Ill. Ind. Orn.* pl. 7; *Bp. Consp.* i. p. 325; *Gould, B. Asia*, part v.; *Cuss. Pr. Philad. Acad.* 1859, p. 49, note.

Muscipeta indica, *Steph. Gen. Zool.* xiii. p. 111; *Sykes, P. Z. S.* 1832, p. 84.

Muscipeta castanea, *Temm. Pl. Col.* iii. text to pl. 584; *id. Tabl. Méth.* p. 23.

Tchitrea paradisi, *Less. Traité*, p. 386; *Gray, Gen. B.* i. p. 259; *Blyth, Cat. Mus. A. S. B.* p. 203; *Horsf. & Moore, Cat. Mus. E. I.*

p. 403; *Hume, t. c.* p. 474; *id. S. F.* 1875, p. 102; *id. Nests and Eggs Ind. B.* p. 196; *Severtz. Turkest. Jevota.* p. 188; *Dresser, Ibis*, 1876, p. 188; *Blyth & Wald. B. Burm.* p. 131.

Muscipeta leucogaster, *Swains. Monogr. Flyc.* p. 205, pl. 24; *Bp. Consp.* i. p. 325.

Terpsiphone paradisi, *Cub. Mus. Hein. Th.* i. p. 58.

Tchitrea leucogaster, *Gray, Hand-l. B.* i. p. 333, no. 5015.

Nestling. General colour above dull chestnut, the wing-coverts coloured like the back, the primary-coverts and quills dark brown, externally chestnut, the innermost secondaries entirely of the latter colour; tail entirely rufous; head dusky, the feathers edged with dull chestnut; throat and chest dusky, slightly washed with rufous; rest of under surface of body dull white.

Adult female. General colour above light bay, the wing-coverts like the back; quills brown, with rufous edgings, the inner secondaries like the back; tail entirely light chestnut; crown of head and crest glossy greenish black; lores, sides of face, sides of neck, and throat gray; rest of under surface of body white, the sides of the breast grayish, the flanks tinged with rufous; under wing-coverts white, with a slight rufous tinge; under surface of quills ashy brown, light rufous on the inner web. Total length 7·5 inches, culmen 0·75, wing 3·45, tail 4, tarsus 0·65.

Adult male. General colour above pure white, the least wing-coverts like back, with black shaft-lines; rest of the wing-coverts white, black on the inner webs; quills black, externally white; the inner secondaries white, with a black longitudinal mark down the centre; tail white, with black shafts and narrow blackish edgings to the feathers; head and a long occipital crest, sides of face and of neck, and entire throat glossy steel-green; rest of under surface of body from the fore neck downwards pure white; quills blackish below, white along the inner web; "bill and orbits lilac-blue; inside of mouth pale yellow; legs and feet pale bluish; iris dark brown" (*Jerdon*). Total length 17 inches, culmen 0·85, wing 3·65, tail 5·5, middle tail-feathers 13·2, tarsus 0·65.

Obs. The changes of plumage in this species are not understood by naturalists, and Dr. Jerdon (*l. c.*) alludes to the different opinions entertained by Indian observers on the subject. From the series of skins in the Museum, I should suggest that the sequence of plumage would be as follows, and that the differences of plumage can all be

accounted for by *age* and not by season of the year. Unfortunately, very few of the skins examined by me have the sex and date of capture attached, and so, even if my idea of the sequence is correct, I am unable to form an estimate of the time it would take for a male bird to acquire the adult white plumage.

The nestling described above shows the first dress, which may be described as dull chestnut with a whitish belly.

The adult female is also described.

The male at first resembles the old female, but has the glossy crown and crest, as well as the throat, steel-green; rest of under surface white; tail rufous, longer than in the old female.

The next dress is like the foregoing, but with a long red tail, and with the quills and primary-coverts edged with white, only the inner secondaries being rufous like the back. From the perfect character of this plumage, as well as from the number of specimens which exhibit it, it would appear to be the full breeding-plumage of the male at some period or other, probably in the second year.

At the same time this and the preceding stage of plumage may be of the same period in the bird's life, as there is one specimen before me now with the white centre tail-feathers full-grown, and a few white feathers coming in the centre of the back, while the wings are still rufous.

In the red-tailed stage, when the long red centre tail-feathers are worn along with the metallic head and throat, the specimens from South-eastern India and Ceylon differ from those from Northern and North-western India in having the chest and sides of the body grey and not white.

The change from the red to the full white plumage seems to be accomplished partly by a change of feather, and partly by a direct moult.

Hab. India and Ceylon. Breeds also in Turkestan.

| | | |
|--|----------------------------------|--------------------------------|
| <i>a.</i> ♂ ad. ; <i>b.</i> ♀ ad. sk. | Cashmere. | E.M. Langworthy, Esq. [P.]. |
| <i>c.</i> <i>d.</i> ♂ imm. sk. | Cashmere. | E.M. Langworthy, Esq. [P.]. |
| <i>e.</i> ♂ imm. sk. | Cashmere, 8000 feet. | Purchased. |
| <i>f.</i> <i>g.</i> ♂ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>h-k.</i> ♂ imm. ; <i>l.</i> ♀ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>m.</i> ♂ ad. sk. | Murree, June 7, 1862. | Capt. C. H. T. Marshall [P.]. |
| <i>n.</i> ♀ ad. sk. | Murree, June 22, 1872. | Capt. C. H. T. Marshall [P.]. |
| <i>o.</i> ♂ imm. sk. | Murree, May 15, 1872. | Capt. C. H. T. Marshall [P.]. |
| <i>p.</i> ♀ ad. sk. | Matheran, Bombay, Jan. 25, 1872. | Major Hayes Lloyd [P.]. |
| <i>q.</i> ♂ imm. sk. | Matheran, Jan. 29, 1872. | Major Hayes Lloyd [P.]. |
| <i>r.</i> ♂ ad. sk. | Matheran, Jan. 21, 1872. | Major Hayes Lloyd [P.]. |
| <i>s-n.</i> ♂ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>w.</i> ♂ imm. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |

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| <i>x, y, z.</i> ♀ ad. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>a', b'.</i> ♂ ♀ ad. sk. | Behar. | B. H. Hodgson, Esq. [P.]. |
| <i>c', d', e'.</i> ♀ ad.; <i>f'.</i> ♂ ad. sk. | Kamptee. | Dr. B. Hinde [P.]. |
| <i>g'.</i> ♂ ad. sk. | Mysore. | Hon. E.I. Co. [P.]. |
| <i>h', i'.</i> ♂ ad.; <i>k', l', m'.</i> ♂ juv. sk. | Mahabaleshwur hills. | Colonel Sturt [P.]. |
| <i>n'.</i> ♂ ad.; <i>o'.</i> ♂ juv. sk. | Banda. | Colonel Sturt [P.]. |
| <i>p'.</i> ♂ ad. sk. | Sassowlie. | Colonel Sturt [P.]. |
| <i>q'.</i> ♀ ad. sk. | Moolus. | Colonel Sturt [P.]. |
| <i>r', s'.</i> ♂ ad.; <i>t', u'.</i> ♂ juv. sk. | Malabar. | Purchased. |
| <i>v', w'.</i> ♂ ad.; <i>x', y'.</i> ♂ juv. sk. | Madras. | Rev. H. H. Baber [P] |
| <i>z'.</i> ♂ juv.; <i>a''.</i> ♂ ad. sk. | Ceylon. | Purchased. |
| <i>b''.</i> Pull. sk. | India. | Hon. E.I. Co. [P.]. |

2. *Terpsiphone affinis*.

Muscipeta paradisea, *Eyton*, *P. Z. S.* 1830, p. 102 (*nec L.*).

Tchitrea affinis, *A. Hay*, *MS.*, *undd*

Tchitrea affinis, *Blyth*, *J. A. S. B.* xv. p. 292; *id.* *Cat. B. Mus. A. S. B.* p. 203; *Gray*, *Gen. B.* iii. *App.* p. 12; *Horsf. & Moore*, *Cat. B. Mus. E.I. Co.* i. p. 134; *Moore*, *P. Z. S.* 1854, p. 270; *Jerd. B. Ind.* i. p. 448; *Sclater*, *P. Z. S.* 1863, p. 217; *Schl. N. T. D.* iii. p. 85; *Gray*, *Hond-l. B.* i. 332, no. 5003; *Walden*, *Ibis*, 1872, p. 373; *Blyth & Wadd. B. Burm.* p. 131.

Muscipeta affinis, *Bp. Consp.* i. p. 325; *Hume & Davison*, *Str. F.* vi. 1878, p. 223.

Tchitrea paradisei, *Schl. Dierk.* fig. to p. 147 (*nec L.*).

Muscipeta affinis, var., *Wall. P. Z. S.* 1863, p. 486.

Terpsiphone affinis, *Salvad. Ucc. Born.* p. 137.

Adult male. General colour pure white, with shaft-lines of black, especially distinct on the greater coverts; quills black, externally edged with white, the inner secondaries white, with longitudinal black centres to the feathers; tail-feathers white, with blackish edges and with distinct black shafts; head, sides of face, and entire throat greenish black, without much metallic gloss; remainder of under surface of body, including the under wing-coverts, pure white; quills blackish below, broadly white along the inner web. Total length 16.2 inches, culmen 0.75, wing 3.6, tail 5.2, middle tail-feathers 13, tarsus 0.6.

Adult female. General colour orange-rufous, brown on the mantle and scapulars; rump, upper tail-coverts, and tail chestnut; wing-coverts like the back, the greater series orange-rufous, dusky brown on the inner webs; bastard wing, primary-coverts, and primaries black, with a narrow edging of orange-rufous, the secondaries more broadly margined, the innermost being entirely orange-rufous, with longitudinal blackish centres to them; crown and a moderate crest glossy steel-blue; sides of face and a narrow collar round the hind neck and entire throat and breast ashy grey; remainder of the under

surface yellowish buff, the sides of the body washed with orange, as also the under tail-coverts, which are slightly more rufous; under wing-coverts rufescent, whiter at base; quills dark brown below, rufous along the inner web. Total length 7·8 inches, culmen 0·85, wing 3·55, tail 4·15, tarsus 0·6.

Male in second plumage. Very similar to the foregoing, but with a longer tail, the grey on the throat and breast darker, and the white on the belly purer and less fulvous. Total length 9·7 inches, wing 3·5, culmen 0·85, tail 4, middle tail-feathers 8·2, tarsus 0·6.

Hab. Indian Archipelago; Java, Sumatra, Borneo, Flores, Malayan peninsula, Burmese countries, ranging into the Eastern Himalayas.

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| <i>a.</i> ♂ imm. sk. | East Java. | A. R. Wallace, Esq. [C.]. |
| <i>b.</i> ♂ ad. sk. | East Java. | A. R. Wallace, Esq. [C.]. |
| <i>c, d.</i> ♂ imm. sk. | Sumatra. | A. R. Wallace, Esq. [C.]. |
| <i>e, f.</i> ♂ ad. sk. | Sumatra. | A. R. Wallace, Esq. [C.]. |
| <i>g.</i> ♂ ad. sk. | Borneo. | |
| <i>h.</i> ♂ ad. sk. | Borneo. | Rajah Brooke [P.]. |
| <i>i.</i> ♂ ad. sk. | Pandan, Bintulu. | Alfred Everett, Esq. [C.]. |
| <i>k.</i> ♂ ad. sk. | Lumbidan, N.W. Borneo. | Hugh Low, Esq. [C.]. |
| <i>l, m.</i> ♀ ad. sk. | Lumbidan (<i>H. Low</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>n.</i> ♀ ad. sk. | Lumbidan. | Governor Ussher [C.]. |
| <i>o.</i> ♂ ad. sk. | Sarawak. | A. R. Wallace, Esq. [C.]. |
| <i>p, q.</i> ♂ ♀ ad. sk. | Banjermassing. | J. R. Motley, Esq. [C.]. |
| <i>r.</i> ♂ ad.; <i>s, t.</i> ♀ ad. sk. | Flores. | A. R. Wallace, Esq. [C.]. |
| <i>u.</i> ♂ ad. sk. | Malacca. | Hon. E. L. Co. [P.]. |
| <i>r, w.</i> ♂ ad. et juv. sk. | Malacca. | W. Harvey, Esq. [P.]. |
| <i>x, y.</i> ♂ imm. sk. | Malacca. | A. R. Wallace, Esq. [C.]. |
| <i>z, a'.</i> ♂ imm. sk. | Malacca. | A. R. Wallace, Esq. [C.]. |
| <i>b'.</i> ♂ ad. sk. | Kessang, Malacca. | M. Bouvier. |
| <i>c'.</i> ♂ imm. sk. | Araikan hills, near Bassein, Pegu. | W. T. Blanford, Esq. [P.]. |
| <i>d', e'.</i> ♂ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>f'.</i> ♂ ad. sk. | Camorta Island, Nicobars, Dec. 1873 (<i>Capt. Wimberley</i>). | R. B. Sharpe, Esq. [P.]. |

3. *Terpsiphone incii*.

Muscipeta incii, *Gould, B. Asia*, part 4.

Tchitrea incei, *Horsf. & Moore, Cat. B. Mus. F.I. Co. i.* p. 392; *Gray*,

Hand-l. B. i. p. 333, no. 5013; *Swinh. Ibis*, 1863, p. 92; *id.*

P. Z. S. 1871, p. 381; *David & Oustal. Ois. Chine*, p. 112, pl. 82.

Tchitrea principalis, *Swinh. Ibis*, 1861, p. 330 (*nec Temm.*).

Adult male (type of species). General colour above deep maroon, the wing-coverts uniform with the back; quills black, externally chestnut, the inner secondaries chestnut, with black along the shafts; tail-feathers maroon-chestnut, lighter and more chestnut-brown on the inner web; head and crest, nape, sides of face, and throat steel-green; fore neck and breast ashy grey; rest of under surface white, the flanks washed with greyish; under wing-coverts and axillaries white, the latter slightly washed with grey; quills dusky brown

below, reddish along the inner webs; "bill and eyelids cobalt-blue; angle of mouth green; feet greenish; iris brown" (*David*). Total length 13·8 inches, culmen 0·7, wing 4·8, tail 4·5, middle tail-feathers 10·3, tarsus 0·6.

Adult female. Above deep chestnut, the tail entirely of the latter colour; wing-coverts uniform with the back; primary-coverts dusky brown; quills blackish, externally chestnut; head above, sides of face, and throat dusky steel-green; chest ashy grey; rest of under surface of body creamy white, the flanks washed with dull rufous; under wing-coverts white, the quills dusky blackish below, rufous along the inner web. Total length 7 inches, culmen 0·7, wing 3·45, tail 3·35, tarsus 0·65. (*Mus. H. Seebohm.*)

Young males in nearly full plumage, with long red tails, are deeper chestnut than the adult females, and generally have a slight indication of maroon on the mantle. They have almost the entire under surface grey, with a little white about the lower abdomen and vent. The throat, if not exactly like the adult, is deep slate-colour, with a strong wash of steel-green.

Mr. Swinhoe had a bird from Ningpo in full white plumage, which he has labelled *T. incii*. As far as I can see, this species never passes beyond the maroon-backed dress with the red tail, and the above-mentioned white bird I should refer to *T. affinis*. Messrs. David and Oustalet, however, also figure the adult of this species as white.

Hab. China, ranging into the Malayan peninsula and Sumatra.

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| a. ♂ ad. sk. | Shanghai. | Hon. East-India Co. [P.] (Type of species.) |
| b. ♂ ad. sk. | Malacca. | W. Harvey, Esq. [P.] |
| c. ♀ ad. sk. | Malacca. | Hon. E.I. Co. [P.] |
| d. ♂ jun. sk. | Kessang, Malacca. | M. Bouvier. |
| e, f. ♂ ad. sk. | Sumatra. | A. R. Wallace, Esq. [C.] |
| g. Jun. sk. | Sumatra. | A. R. Wallace, Esq. [C.] |

4. *Terpsiphone mutata*.

Le Gobe-mouche à longue queue de Madagascar, *Briss. Orn.* ii. p. 424, pl. 40. fig. 1; *Daubent. Pl. Enl.* v. pl. 248. fig. 1.

Le Gobe-mouche à longue queue blanc de Madagascar, *Briss. t. c.* p. 427, pl. 40. fig. 2.

Le Gobe-mouche varié à longue queue de Madagascar, *Briss. t. c.* p. 430, pl. 40. fig. 3.

Muscicapa mutata, *Linn. Syst. Nat.* i. p. 325.

Le Gobe-mouche à longue queue et à ventre blanc de Madagascar, *Daubent. Pl. Enl.* v. pl. 248. fig. 2.

Le Schet de Madagascar, *Month. Hist. Nat. Ois.* iv. p. 567.

Muscicapa caudata, *Müll. Syst. Nat., Anhang*, p. 168; *Cass. Pr. Philad. Acad.* 1864, p. 255.

Mutable Flycatcher, *Lath. Gen. Syn.* ii. p. 348.

Muscicapa viridescens, *Bodd. Tabl. Pl. Enl.* p. 15.

Le Schet roux, *Lerail. Ois. d'Afr.* iii. pl. 147.

Le Schet noir, *Lerail. t. c.* iii. pl. 148.

Platyrhynchus mutatus, *Vieill. N. Dict. d'Hist. Nat.* xxvii. p. 18.

- Muscipeta holosericea*, *Temm. Tabl. Méth. Pl. Col.* p. 23; *Bp. Conspect.* i. p. 325; *Cass. Pr. Philad. Acad.* 1859, p. 49, note.
- Muscipeta mutata*, *Temm. Tabl. Méth.* p. 23; *Bp. Conspect.* i. p. 325; *Schl. & Poll. Faun. Madag.* p. 76, pls. 20, 21.
- Muscipeta rufa*, *Suains. B. W. Afr.* ii. p. 60 (ex *Levaill.*).
- Muscipeta bicolor*, *Suains. t. c.* p. 60 (ex *Levaill.*).
- Tchitrea holosericea*, *Less. Rev. Zool.* 1838, p. 277; *Hartl. Faune Madag.* p. 45; *Gray, Gen. B.* i. p. 259.
- Tchitrea gaimardi*, *Less. Rev. Zool.* 1838, p. 277; *Gray, Gen. B.* i. p. 259; *Pucher. Arch. Mus.* vii. p. 372.
- Tchitrea pretiosa*, *Less. Descr. Mamm. et Ois.* p. 324; *Hartl. Faun. Madag.* p. 46; *E. Newt. Ibis*, 1863, p. 347.
- Tchitrea mutata*, *Less. Rev. Zool.* 1838, p. 277; *Gray, Gen. B.* i. p. 259; *Hartl. Faune Madag.* p. 45; *A. Newt. P. Z. S.* 1865, p. 835; *Schl. N. T. D.* iii. p. 84; *id. P. Z. S.* 1866, p. 423; *Luyard, B. S. Afr.* p. 147; *Grandid. Rev. et Mag. de Zool.* 1867, p. 385; *Gray, Hand-l. B.* i. p. 333, no. 5019.
- Muscipeta gaimardi*, *Bp. Conspect.* i. p. 325; *Cass. Pr. Philad. Acad.* 1859, p. 49, note.
- Tchitrea*, sp., *Sclater, P. Z. S.* 1864, p. 109.
- Tchitrea spekii*, *Hartl. P. Z. S.* 1865, p. 428*.
- Tchitrea rufa*, *Luyard, B. S. Afr.* p. 145.
- Tchitrea caudata*, *Gray, Hand-l. B.* i. p. 333, no. 5020.
- Terpsiphone pretiosa*, *Cab. in Von der Decken, Reis.* iii. p. 24.
- Terpsiphone mutata*, *Finsch & Hartl. Vög. Ostaf.* p. 306; *Heugl. Orn. N.O.-Afr.* p. 444, note; *Sharpe, P. Z. S.* 1870, p. 389; *id. Cat. Afr. B.* p. 44; *id. P. Z. S.* 1872, p. 867; *Hartl. Vög. Madag.* p. 173.

Adult female. General colour above orange-rufous, the tail entirely of this colour; wing-coverts like the back; primary-coverts and quills blackish, externally orange-rufous, the secondaries more broadly edged and the innermost exactly like the back; crown of head and nape glossy steel-blue; lores, feathers round the eye, ear-coverts, and sides of crown behind ashy grey; entire under surface of body rich orange-rufous, paler than the back, including the under wing- and tail-coverts; quills dusky brown below, rufous along the inner webs. Total length 6·5 inches, culmen 0·6, wing 2·9, tail 3·25, tarsus 0·6.

Young male. Resembles the adult female, but shows the first signs of approach to a faller plumage in the white edgings to some of the greater wing-coverts. The next stage is a rich chestnut, with steel-black head and ear-coverts, the wing-coverts and edges to the quills white. One specimen in the Museum is assuming the white tail, the two long centre feathers being black on the outer web, white on the inner. That the exact sequence is not always followed seems to be proved by the fact that another specimen, in paler orange dress, with white-edged wing-feathers, is assuming the full white dress of the adult by a moult, as on the back are some black feathers

* The type specimen was shown to me by Dr. Finsch, and there can be no doubt that it is referable to *T. mutata*. At the same time I do not believe that this species really occurs in Eastern Africa, and I think that some mistake has taken place as regards the locality of the specimen, which was preserved in spirits, whereas Speke's specimens from Eastern Africa were skinned.

appearing, and on the breast some white ones. In the penultimate plumage the back is glossy black, the breast white, the centre tail-feathers white, the rest of the tail-feathers black with the inner webs white. From this stage the white gradually increases on the back, wings, and tail, until the following adult plumage is reached.

Adult male. General colour above white, the feathers with more or less distinct black centres, generally taking the form of black shaft-lines; wing-coverts white, like the back; primary-coverts and primaries black narrowly edged with white, the secondaries broadly margined with white on the outer web; tail white, the two centre feathers with black shafts nearly the whole way, the rest of the tail-feathers with more or less black along the shaft and on the outer web; crown of head, crest, nape, sides of head, and throat glossy steel-green; remainder of under surface pure white, including the under wing-coverts; quills blackish below, white along the edge of the inner web; "bill pearly grey, blackish on the edges; bare eyelids clear blue; feet pearly grey; iris blackish" (*Grandlidier*). Total length 10·2 inches, culmen 0·55, wing 3·15, tail 3·5, middle tail-feathers 6·7, tarsus 0·6.

Hab. Madagascar, Mayotte.

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| <i>a, b, c, d.</i> ♂ ad. sk. | Madagascar. | M. Verreaux. |
| <i>e, f.</i> ♂ imm. sk. | Madagascar. | M. Verreaux. |
| <i>g.</i> ♀ ad.; <i>h.</i> ♂ juv. sk. | N. Madagascar. | Mr. A. Crossley [C.]. |
| <i>i.</i> ♂ imm. sk. | S.E. Madagascar, Mch. 1872. | Mr. A. Crossley [C.]. |
| <i>k.</i> ♂ ad.; <i>l, m.</i> ♂ imm. sk. | N. Madagascar (<i>Crossley</i>). | R. B. Sharpe, Esq. |
| <i>n.</i> ♂ imm. sk. | Nossi Vola (<i>Crossley</i>). | R. B. Sharpe, Esq. |
| <i>o.</i> ♂ ad. sk. | Nossi Vola, Oct. 22, 1869 (<i>Crossley</i>). | R. B. Sharpe, Esq. |
| <i>p.</i> ♂ juv. sk. | Madagascar (<i>Crossley</i>). | R. B. Sharpe, Esq. |
| <i>q.</i> ♀ ad. sk. | Madagascar. | R. B. Sharpe, Esq. |

5. *Terpsiphone vulpina*.

Tchitrea vulpina, *E. Newton*, *P. Z. S.* 1877, p. 298, pl. 33. fig. 2.

Adult male (type of species). General colour above pale cinnamon, the tail being entirely of this colour; wing-coverts white, with black bases; quills black externally edged with white, the innermost secondaries cinnamon; crown of head, sides of face, and ear-coverts dark steel-green, the nape also of this colour and forming a conspicuous crest; cheeks and entire under surface of body rich cinnamon, as also the axillaries; under wing-coverts white; quills black below, white along the edge of the inner web. Total length 11 inches, culmen 0·65, wing 3·1, tail 3·5, middle tail-feathers 7·7, tarsus 0·7. (*Mus. Cantabr.*)

Adult female. Similar to the male, but with a shorter tail. Total length 7·3 inches, wing 2·9, tail 3·8, tarsus 0·7. (*Mus. Cantabr.*)

Hab. Johanna or Anjuan Island.

Obs. The differences pointed out by Mr. E. Newton between this species and *T. mutata* are not sufficiently pronounced to distinguish

it from the latter, which possesses a similar orange-coloured stage of plumage with white wings. The best character for the species is the elongated crest, instead of the cap of *T. mutata*.

6. *Terpsiphone cristata* *.

- Le Gobe-mouche hupé du Sénégal, *Briss. Orn.* ii. p. 422, pl. 39. fig. 2;
Daubent. Pl. Enl. 573. fig. 2.
 Crested Senegal Flycatcher, *Lath. Gen. Syn.* ii. p. 329.
Muscicapa viridis, *Müll. Syst. Nat., Anhang*, p. 171; *Cass. Pr. Philad. Acad.* 1864, p. 256.
Muscicapa cristata, *Gm. S. N.* i. p. 938.
Platyrhynchus cristatus, *Vieill. N. Dict. d'Hist. Nat.* xxvii. p. 20.
Muscipeta melanogastra, *Suain. B. W. Afr.* ii. p. 55; *J. & E. Verr. Rev. et Mag. de Zool.* 1851, p. 279; *Bp. Consp.* i. p. 325; *Cass. Pr. Philad. Acad.* 1859, p. 49, note.
Muscipeta senegalensis, *Less. Ann. Sci. Nat.* ix. p. 173; *id. Rev. Zool.* 1838, p. 279.
Muscipeta ferreti, *Guérin, Rev. Zool.* 1843, p. 162; *id. in Ferr. et Gal. Voy. Abyss.* p. 212, pl. 8; *Bp. Consp.* i. p. 325.
Tchitrea melanogastra, *Gray, Gen. B.* i. p. 260; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 135; *Hartl. Orn. W.-Afr.* pp. 96, 272; *id. J. f. O.* 1861, p. 167; *Layard, B. S. Afr.* p. 140; *Gray, Hand-l. B.* i. p. 333, no. 5005; *Blanf. Geol. and Zool. Abyss.* p. 344.
Tchitrea ferreti, *Gray, Gen. B.* i. p. 260; *id. Hand-l. B.* i. p. 333, no. 5008.
Tchitrea senegalensis, *Gray, Gen. B.* i. p. 259; *Hartl. Orn. W.-Afr.* p. 91.
Terpsiphone melanogastra, *Cab. Mus. Hein. Th.* i. p. 58; *Finsch & Hartl. Vög. Ostaf.* p. 309; *Heugl. Orn. N.O.-Afr.* p. 441; *Finsch, Tr. Z. S.* vii. p. 246; *Antin. & Salvad. Viagg. Bogos*, p. 74.
Terpsiphone ferreti, *Cab. Mus. Hein. Th.* i. p. 58.
Tchitrea cristata, *Filippi, Rev. Zool.* 1853, p. 289.
Tchitrea melampyra, *Verr. in Hartl. Orn. W.-Afr.* p. 90; *Cass. Pr. Philad. Acad.* 1859, p. 47; *Hartl. P. Z. S.* 1860, p. 111; *id. J. f. O.* 1861, p. 167; *Gray, Hand-l. B.* i. p. 333, no. 5006.
Muscipeta duchaillui, *Cass. Pr. Philad. Acad.* 1859, pp. 48, 49; *id. Journ. Philad. Acad.* iv. pl. 50.
Muscipeta speciosa, *Cass. Pr. Philad. Acad.* 1859, pp. 48, 49; *id. Journ. Philad. Acad.* iv. pl. 50.
Muscipeta melampyra, *Cass. Pr. Philad. Acad.* 1859, p. 49, note.
Terpsiphone duchaillui, *Heine, J. f. O.* 1859, p. 429.
Terpsiphone speciosa, *Heine, t. c.* p. 429.
Tchitrea duchaillui, *Hartl. J. f. O.* 1861, p. 167; *Gray, Hand-l. B.* i. p. 333, no. 5007.
Tchitrea speciosa, *Hartl. J. f. O.* 1861, p. 167; *Gray, Hand-l. B.* i. p. 333, no. 5017.

* The description of the underparts given by Brisson is as follows:—"La poitrine, le ventre, les côtés, les jambes et les couvertures du dessous de la queue sont d'un cendré très-foncé, mais qui s'éclaircit un peu en approchant vers l'anus." The only species of *Terpsiphone* which answers to this description of dark grey under tail-coverts is *T. melanogastra*, which at certain stages agrees with Brisson's description. I have therefore superseded Swainson's name by the one founded by Gmelin upon Brisson. The species identified by Dr. Hartlaub as *T. cristata* (Gm.) and by me as *T. senegalensis* (Less.) appears to have not yet been named.

Tchitrea melampyga, *Schl. N. T. D.* iii. p. 85.

Terpsiphone melampyra, *Sharpe, P. Z. S.* 1871, p. 610; *id. Cat. Afr. B.* p. 44, no. 420; *Sharpe & Bouvier, Bull. Soc. Zool. France*, i. p. 45.

Terpsiphone rufocinerea, *Cab. J. f. O.* 1875, p. 236; *Reichen. J. f. O.* 1877, p. 22.

Difficult as it is to establish, I have come to the conclusion that *Terpsiphone melampyra* is only the female of the species of which *T. duchailtui* is the adult male. The Muscum series is so complete that scarcely any doubt can exist on the subject, and the sequence of changes appears to be as follows:—

Young female (sex marked by Dr. Lucan). Above dull orange-chestnut, including the tail; wing-coverts like the back, the greater series with blackish bases; primary-coverts and quills blackish, the secondaries externally orange-rufous, of which a narrow margin appears on the primaries; head and under surface of body dull slaty blue with a slight steel-bluish lustre, the abdomen fluffy and dull whitish, washed slightly with orange; vent and under tail-coverts dull orange; thighs dusky grey; under wing-coverts slaty grey; axillaries dull orange-rufous. Total length 6 inches, culmen 0·6, wing 2·8, tail 2·8, tarsus 0·55.

The bird I take to be the full-plumaged female is much as the typical specimen of *T. melampyra*. Rich orange-chestnut above; wings and tail the same, the secondaries entirely like the back, the primaries with broad edgings; below slaty blue, the throat and sides of face glossed with steel-blue; the hind neck greyish; crown of head glossy steel-blue; under wing-coverts slaty blue; under tail-coverts orange.

Young males appear at first to resemble the females, but are often distinguished by the greyish edgings to the primaries and the long centre tail-feathers. Considerable difference in the colour of the upperparts exists, sometimes the back being bright orange-rufous, and sometimes chestnut.

Male in second plumage. The head, neck, and underparts very like the adult, steel-green, shading off into slaty grey on the abdomen; rest of upper surface rich chestnut-red, as also the wing-coverts; outer greater coverts, primary-coverts, and quills black, externally edged with slaty grey, the inner secondaries with chestnut; tail chestnut; under tail-coverts chestnut. Total length 8·3 inches, culmen 0·65, wing 3·1, tail 3·6, middle tail-feathers 5, tarsus 0·6.

Intermediate specimens between the red-backed and the white-backed phases of plumage are in the collection; one may be especially mentioned, as having the red back with a good deal of white on the wings, and a black tail somewhat shaded with rufous at the tip of the inner web, the centre feather having an appearance of white near the shaft. The question to be proved is, whether the adult male ever gets a perfectly white tail, and whether the red-tailed birds are females or (as I have described them) males in second plumage. Mr. Cassin's assignation of the red-tailed bird to the adult male and the white bird to the adult female is obviously incorrect; and the separation of his *Muscipeta speciosa* from *M. duchailtui* is

also not right; as the black upper tail-coverts are found in our red-backed specimen (*l*) along with the white on the wing and on the tail, and are evidently signs of an approach to the adult stage. Spec. *g* is still chiefly black on the back and upper tail-coverts, the white beginning to predominate; in all other respects the bird is in perfect plumage.

The specimen from Old Calabar has white under tail-coverts, and is of a glossy steel-black without any green gloss on the head and throat; the axillaries are also white. The difference in the glossy shade may be due to preservation in spirit; while the white under tail-coverts and axillaries appear to be only a sign of perfect maturity.

Adult male. General colour above pure white, the middle of the back slightly streaked with black; wing-coverts white; primary-coverts and primaries black, the secondaries black broadly edged with white; some of the outer greater wing-coverts tipped with white; tail-feathers white, slightly edged with blackish and with black shafts, some of the feathers black with more or less white at the tip and near the base; head and crest, sides of face, and throat glossy steel-green, extending upon the breast and gradually shading off on the abdomen and under tail-coverts, which are dark slaty grey; thighs white; under wing-coverts white, the axillaries slaty grey with white edgings. Total length 14 inches, culmen 0.65, wing 3.4, tail 3.8, middle tail-feathers 10, tarsus 0.55.

The bird described not having a perfect tail, the entire length and that of the centre tail-feathers are added from Dr. Smith's Old-Calabar specimen.

The observations on the change of plumage have been made from West-African specimens; but the Abyssinian and Senegambian birds are also found to follow the same sequence, and only one widespread species can be recognized. I have noticed, however, that in some of the males in changing dress the white tail is assumed by a moult, while occasionally it is arrived at by a change of feather, the actual feather itself changing from red to white without a moult.

Hab. North-eastern Africa; West Africa, from Senegambia to the Congo.

| | | |
|---|------------------------------------|----------------------------|
| <i>a.</i> Ad. sk. | N.E. Africa. | Purchased. |
| <i>b.</i> Ad. sk. | N.E. Africa. | J. Gould, Esq. |
| <i>c.</i> Imm. sk. | Abyssinia. | Dr. Rüppell [C.]. |
| <i>d.</i> Imm. sk. | Abyssinia. | R. B. Sharpe, Esq. |
| <i>e, f.</i> Ad. sk. | Efat, Abyssinia. | Sir W. C. Harris [C.]. |
| <i>g.</i> Ad. sk. | Bogos Land. | Herr Esler [C.]. |
| <i>h, i.</i> ♂ ad. sk. | Anseba Valley, Aug. 6, 1868. | W. T. Blanford, Esq. [C.]. |
| <i>k.</i> ♀ ad. sk. | Ailat, Samhar, June 28, 1868. | W. T. Blanford, Esq. [C.]. |
| <i>l.</i> ♂ ad. sk. | Adigrat, Tigré, March 25, 1868. | W. T. Blanford, Esq. [C.]. |
| <i>m, n.</i> ♂ ad.; <i>o.</i> ♀ ad. sk. | On the road to Magdala. | Colonel Sturt [P.]. |
| <i>p.</i> ♀ ad.; <i>q.</i> ♂ juv. sk. | Kokai (<i>Jesse</i>). | R. B. Sharpe, Esq. |

| | | |
|-------------------------|--|--|
| r. Ad. sk. | White Nile. | Sir Samuel Baker [P.]. |
| s, t. ♂ ♀ ad. sk. | White Nile. | Purchased. |
| u. Ad. sk. | West Africa. | R. B. Sharpe, Esq. |
| v, w. Ad. sk. | River Gambia. | R. B. Sharpe, Esq. |
| x. ♂ ad. sk. | Casamance. | R. B. Sharpe, Esq. |
| y. Ad. sk. | Old Calabar. | Dr. Alex. Smith [P.]. |
| z. Ad. sk. | Cameroons, Feb. 16, 1871 (<i>A. Crossley</i>). | R. B. Sharpe, Esq. |
| a'. Ad. sk. | Gaboon. | M. Verreaux. (Type of <i>M. melampyra</i> .) |
| b', c'. Ad. sk. | Gaboon. | R. B. Sharpe, Esq. |
| d'. Imm. sk. | Gaboon (<i>Walker</i>). | R. B. Sharpe, Esq. |
| e'. ♂ ad. sk. | Gaboon. | M. DuChailu [C.]. |
| f', g'. Imm. sk. | River Danger, Gaboon. | Henry Ansell, Esq. [P.]. |
| h', i', k'. Ad. sk. | Confluents of the River Ogówe. | MM. Marche & De Compiègne [C.]. |
| l. Ad. sk. | Cabinda, Congo, August. | Commander Spierling [P.]. |
| m'. Ad.; n'. ♀ juv. sk. | Landana, Congo. | Dr. Lucan & M. Petit [C.]. |
| o'. Ad. sk. | Bembe, Angola. | J. J. Monteiro, Esq. [C.]. |

7. *Terpsiphone erythroptera*.

Tchitrea cristata, *Hartl. Orn. W.-Afr.* p. 89 (*nec Gm.*).

Terpsiphone senegalensis, *Sharpe, Cat. Afr. B.* p. 44, no. 418 (*nec Less.*).

Adult male. General colour above chestnut, the tail entirely of this colour; wing chestnut, like the back, dusky brown towards the tip of the inner web, more indistinct on the secondaries, the innermost of which are entirely rufous, like the back; crown of head and chest, sides of head, and entire throat glossy steel-green; fore neck and breast light ashy grey, the rest of the under surface, including the under tail-coverts, white; tibial plumes and sides of body washed with pale rufous; under wing-coverts chestnut, with broad margins of hoary white. Total length 15·7 inches, culmen 0·8, wing 3·65, tail 4·3, middle tail-feathers 12·1, tarsus 0·65.

Adult female. Differs from the male in not having the long tail, in being duller white below, and in having the throat dark grey, with a slight steel-green gloss. Total length 7·5 inches, culmen 0·8, wing 3·35, tail 4, tarsus 0·65.

Hab. Senegambia.

a, b. ♂ ♀ ad. sk. River Gambia. R. B. Sharpe, Esq.

8. *Terpsiphone perspicillata*.

Le Gobe-mouche Tchitrec, *Levaill. Ois. d'Afr.* iii. p. 203, pls. 142, 143. *Tchitrea cristata* (*nec Gm.*), *Less. Traité*, p. 386; *id. Rev. Zool.* 1838, p. 278; *Gray, Gen. B.* i. p. 250; *Hartl. Orn. W.-Afr.* p. 90, no. 271; *Cass. Pr. Philad. Acad.* 1859, p. 49; *Hartl. J. f. O.* 1861, p. 167; *Layard, B. S. Afr.* p. 145; *Gray, Hand-l. B.* i. p. 333, no. 5010; *Bocage, Journ. Lisb.* 1870, p. 343.

Muscipeta perspicillata, *Swains. B. W. Afr.* ii. p. 59; *Licht. Nomencl.* p. 19.

- Platystira perspicillata*, *Gray, Gen. B. i. p. 257.*
Terpsiphone cristata, *Cab. Mus. Hein. Th. i. p. 39; Finsch & Hartl. Vög. Ostaf. p. 304; Heugl. Orn. N.O.-Afr. p. 446, note; Bocage, Orn. Angola, p. 191.*
Muscipeta cristata (nec Gm.), *Licht. Nomencl. p. 19; Cuss. Pr. Philad. Acad. 1859, p. 49; Kirk, Ibis, 1864, p. 319.*
Muscicapra perspicillata, *Grill, Zool. Anteckn. p. 26.*
Tchitrea perspicillata, *Gurney, Ibis, 1862, p. 29.*
Tchitrea ferreti (nec Guér.), *Bianc. Spec. Zool. Mosamb. fasc. viii. p. 321.*
Tchitrea viridis, *Gray, Hand-l. B. i. p. 333, no. 5010; Gurney in Anderss. B. Dam. Ld. p. 130.*
Terpsiphone viridis, *Sharpe, P. Z. S. 1871, p. 133; id. Cat. Afr. B. p. 344, no. 415.*

Adult male. General colour above bright chestnut, the tail entirely chestnut, with dark red shafts; wing-coverts also chestnut, like the back, the primary-coverts and quills blackish on the inner web, chestnut on the outer one, the innermost secondaries entirely chestnut, like the back; head, which is much crested, glossy steel-green, as well as the sides of the face and throat; rest of under surface of body leaden grey, the steel-green colour of the throat descending upon the fore neck, the feathers of which are edged with the latter colour; thighs, vent, and under tail-coverts pure white; under wing-coverts and axillaries white, slightly washed with chestnut near the base; coverts near the edge of the wing dull chestnut, mottled with brown bases to the feathers; lower surface of quills blackish, the inner web reddish along the edge; "bill grey, tipped with black; wattled eyelids of a bright greyish blue; legs grey; iris dark brown" (*Shelley*). Total length 14 inches, culmen 0·7, wing 3·25, tail 3·5, long central tail-feathers 11·2, tarsus 0·65.

Adult female. Differs from the male in wanting the two long tail-feathers. The colours are altogether duller and paler, the head dusky leaden grey, and the throat and under surface dull grey, with no green gloss anywhere, excepting a little on the crown; the chest slightly washed with brown on the sides; soft parts in the female as in the male. Total length 6 inches, culmen 0·7, wing 3·05, tail 3·2, tarsus 0·65.

Young males resemble the females, but have longer tail-feathers. In the adults, according to Dr. Kirk, the long rectrices are lost in the dry season.

Hab. Southern and South-western Africa.

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|-------------------|--|---------------------------|
| a, b. ♀ ad. sk. | Knysna, Feb. 1866 (C. J. Andersson). | R. B. Sharpe, Esq. |
| c. ♂ ad. sk. | Natal. | R. B. Sharpe, Esq. |
| d, e. ♂ ♀ ad. sk. | Natal. | Dr. Gueinzius [C.]. |
| f. ♀ ad. sk. | Rustenberg. | F. A. Barratt, Esq. [C.]. |
| g. ♂ juv. sk. | Zambesi (<i>Meller</i>). | R. B. Sharpe, Esq. |
| h. ♀ ad. sk. | Tette, Zambesi. | Dr. Kirk [C.]. |
| i. ♂ juv. sk. | Elephant Vley, Damara Land, Oct. 28, 1859 (C. J. Andersson). | R. B. Sharpe, Esq. |
| k. ♂ juv. sk. | Angola (<i>Hamilton</i>). | R. B. Sharpe, Esq. |

9. *Terpsiphone tricolor*.

- Muscipeta tricolor*, *Fraser, Ann. N. H.* xii. p. 441; *id. P. Z. S.* 1843, p. 4; *Allen & Thoms. Exped. Niger*, ii. p. 492; *Bp. Consp.* i. p. 325.
Tchitrea tricolor, *Gray, Gen. B.* i. p. 260; *Hartl. Orn. W.-Afr.* p. 90, no. 274.
Muscipeta flaviventris, *Verr. J. f. O.* 1855, p. 103; *Cass. Pr. Philad. Acad.* 1859, pp. 47, 49.
Tchitrea flaviventris, *Hartl. Orn. W.-Afr.* p. 91, no. 278; *Cass. Pr. Philad. Acad.* 1859, p. 59; *Hartl. J. f. O.* 1861, p. 168; *Gray, Hand-l. B.* p. 333, no. 5011.
Tchitrea bicolor (err.), *Hartl. J. f. O.* 1861, p. 167.
Terpsiphone tricolor, *Finsch & Hartl. Vög. Ostaf.* p. 311, note; *Sharpe, P. Z. S.* 1871, p. 610; *Reichen. J. f. O.* 1877, p. 22.

Adult male. General colour above blue-grey, the wing-coverts coloured like the back, the secondaries also; the primaries blackish, externally blue-grey; tail-feathers dull bluish grey, the inner webs ashy; head crested, glossy steel-black, as also the sides of the face and the throat, the latter somewhat duller and more ashy; rest of under surface of body, from the throat downwards, rich orange-chestnut, including also the under wing-coverts; "bill and feet pale blue" (*Fraser*). Total length 9 inches, culmen 0·7, wing 3·15, tail 3·5, middle feathers 5·1, tarsus 0·65.

Adult female. Wants the bright orange-colour of the breast, which is not so richly coloured, being simply orange; the long middle tail-feathers wanting; head not so glossy and duller, more greyish; sides of breast slightly washed with grey. Total length 6·6 inches, wing 2·95, tail 3·2, tarsus 0·6.

Hab. West Africa.

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| <i>a.</i> Ad. sk. | Clarence, Fernando Po. | L. Fraser, Esq. [C.] (Type of species.) |
| <i>b, c.</i> ♂; <i>d, e.</i> ♀ ad. sk. | Cameroons Mountains (<i>A. Crossley</i>). | R. B. Sharpe, Esq. |
| <i>f.</i> ♂ ad. sk. | Gaboon (<i>Du Chailly</i>). | R. B. Sharpe, Esq. |
| <i>g.</i> ♂ ad. sk. | Gaboon. | |

10. *Terpsiphone nigriceps*.

- Velvet-headed Flycatcher, *Lath. Gen. Hist. B.* vi. p. 198.
Tchitrea nigriceps, *Hartl. J. f. O.* 1855, pp. 355, 361 (*ex Temm. MSS. in Mus. Lugd.*); *id. Orn. W.-Afr.* p. 91, no. 277; *Cass. Pr. Philad. Acad.* 1869, pp. 47, 49; *Hartl. J. f. O.* 1861, p. 168; *Sharpe, Ibis*, 1869, p. 188; *Gray, Hand-l. B.* i. p. 333, no. 5014.
Terpsiphone nigriceps, *Sharpe, P. Z. S.* 1874, p. 306; *Finsch & Hartl. Vög. Ostaf.* p. 311, note; *Sharpe, Cat. Afr. B.* p. 44, no. 417; *Ussher, Ibis*, 1874, p. 61.

Adult male. General colour above bright orange-chestnut, the tail-feathers the same, paler on the inner webs; scapulars and wing-coverts like the back, the greater series black on the inner web; bastard wing, primary-coverts, and primaries black; the secondaries black, externally edged with orange-chestnut, the innermost entirely of the latter colour; head and nape all round, in-

cluding the throat, glossy purplish black ; rest of under surface of body bright orange-chestnut, including the under wing-coverts ; quills ashy below, with rufous edges to the inner webs. Total length 9·5 inches, culmen 0·65, wing 3·05, tail 3·8, middle feathers 6, tarsus 0·6.

Adult female(?). Similar to the male, but duller-coloured, especially on the head, which has scarcely any gloss at all ; the tail shorter. Total length 7 inches, wing 2·9, tail 3·5, tarsus 0·6.

Young. Similar to supposed adult female, but much duller and browner in colour ; head and throat dusky blackish, the latter washed with orange ; quills ashy brown, externally edged with dull orange ; tail brown, washed with dull orange near the base.

Hab. West Africa, from Senegambia to the Gold Coast ; island of Bulama.

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| <i>a, b.</i> ♂ ♀ ad. sk. | West Africa. | Purchased. |
| <i>c.</i> ♀ ad. ; <i>d.</i> ♂ juv. sk. | Fantee. | R. B. Sharpe, Esq. |
| <i>e, f.</i> ♂ ad. sk. | Fantee (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. |
| <i>g.</i> ♀ ad. ; <i>h.</i> Juven. sk. | Ashantee. | John Gould, Esq. |
| <i>i.</i> ♂ ad. sk. | Accra (<i>Capt. Hynes</i>). | R. B. Sharpe, Esq. |

11. *Terpsiphone rufiventris*.

Muscipeta rufiventris, *Savins. B. W. Afr.* ii. p. 53, pl. 4 ; *Bp. Consp.* i. p. 325 ; *Cass. Pr. Philad. Acad.* 1859, p. 49, note.

Muscipeta (*Tchitrea*) *casamancæ*, *Less. Ann. Sci. Nat.* ix. p. 173.

Muscipeta smithii, *Fraser, P. Z. S.* 1843, p. 34 (♀) ; *Allen & Thoms. Exp. Niger*, ii. p. 492.

Tchitrea rufiventris, *Gray, Gen. B.* i. p. 259 ; *Hartl. Orn. W.-Afr.* p. 90, no. 275 ; *id. J. f. O.* 1861, p. 167 ; *Schl. N. T. D.* iii. p. 86.

Tchitrea smithii, *Hartl. Orn. W.-Afr.* p. 91, no. 279 ; *Cass. Pr. Philad. Acad.* 1859, p. 42 ; *Hartl. J. f. O.* 1861, p. 168 ; *Gray, Hand-l. B.* i. p. 333, no. 5018.

Tchitrea rufiventer, *Gray, Hand-l. B.* i. p. 333, no. 5004.

Terpsiphone smithii, *Finsch & Hartl. Vög. Ostaf.* p. 312, note.

Adult male. General colour above rich orange-rufous, the entire tail also of the latter colour ; scapulars and least wing-coverts orange, like the back ; rest of the wing-coverts white, with black bases to the feathers ; bastard wing, primary-coverts, and quills black, the secondaries externally edged with white, the inner ones with dull orange-rufous, the innermost being entirely of this colour ; head with a long occipital crest glossy steel-blue, the sides of the face and throat of this colour also ; rest of under surface, from the lower throat downwards, rich orange-chestnut ; under wing-coverts a little paler than the breast ; outermost under wing-coverts white, the lower ones black ; quills ashy blackish below, with whitish edgings to the inner secondaries. Total length 12·8 inches, culmen 0·65, wing 3·35, tail 4·3, middle tail-feathers 9·5, tarsus 0·6.

Adult female. Similar to the male, but without the long centre tail-feathers ; no white on the wing, the primaries edged with rufous ; occipital-crest feathers rufous, tipped with steel-blue ; "bill slate-colour, with a purplish tinge, the lower mandible lightest ; feet

the same slate-colour, resembling the underpart of lower mandible; iris slate-colour, tinged with purple" (*MS. note of collector, spec. f.*). Total length 7.1 inches, wing 3.25, tail 4, tarsus 0.65.

Obs. In my 'Catalogue of African Birds' I united my specimens of this species to *T. nigriceps*, not having a good series of the latter, and supposing it to be the not fully plumaged phase. Having since got a set of adult males of *T. nigriceps*, there is no doubt that the two species are easily distinguishable.

The gradual development of white on the wings probably indicates a complete white plumage, which the series in the Museum does not exemplify. A specimen, however, with the steel-blue colour extending upon the fore neck and chest, in addition to the white on the wings, may give a hint as to the nature of the final dress.

Hab. West Africa; Senegambia.

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|---------------------------|---|--------------------|
| a. ♀ ad. st. | West Africa. | Purchased. |
| b. ♂ juv.; c, d. Imm. sk. | River Gambia. | R. B. Sharpe, Esq. |
| e. ♂ ad. sk. | Cape St. Mary, Gambia, Dec. 22, 1864. | R. B. Sharpe, Esq. |
| f. ♀ ad. sk. | Cape St. Mary, Gambia, March 21, 1863. | R. B. Sharpe, Esq. |
| g. ♂ imm. sk. | River Gambia. | |

12. *Terpsiphone princeps*.

Muscipeta princeps, *Temm. Pl. Col.* iii. pl. 584.

Muscipeta atrocaudatus, *Eyton, P. Z. S.* 1830, p. 102; *Bp. Consp.* i. p. 325.

Muscipeta atriceps, *Blyth, J. A. S. B.* xi. pp. 203, 790.

Tchitrea atrocaudatus, *Blyth, J. A. S. B.* xv. p. 293; *id. Cat. B. Mus.* A. S. B. p. 204; *Gray, Hand-l. B.* i. p. 334, no. 5024.

Muscipeta principalis, *Temm. & Schl. Faun. Japon.* p. 47, pl. 17 E.

Tchitrea principalis, *Swinh. Ibis*, 1860, p. 57.

Tchitrea princeps, *Gray, Hand-l. B.* i. p. 333, no. 5012; *Swinh. P. Z. S.* 1871, p. 381; *David & Oustal. Ois. Chine*, p. 113.

Adult male. General colour above glossy purplish maroon, darker on the rump; the upper tail-coverts and tail purplish black; wing-coverts maroon, like the back; quills black, edged with dull maroon or chestnut; head and crest, sides of face, throat, and fore neck purplish black, the purple shade being more distinct on the former; breast slightly shaded with ashy grey; rest of under surface of body and under tail-coverts creamy white; flanks washed with purplish brown; thighs dusky brown; axillaries white, internally dusky, the under wing-coverts blackish, edged with white; "wattle round the eyes cobalt-blue; iris black" (*Webbe*). Total length 14.3 inches, culmen 0.7, wing 3.65, tail 3.7, middle tail-feathers 11, tarsus 0.65.

Adult female. General colour above brownish chestnut; wing-coverts uniform with the back; primary-coverts dusky brown; quills blackish, externally edged with dull chestnut; tail dull brown, washed with rufous near the base; crown and nape dull purplish black, the hind neck ashy brown; lores blackish; sides of face and throat dusky grey, inclining to paler ashy on the breast; rest of

under surface creamy white, the sides of the body washed with chestnut; thighs dusky brown; axillaries white; rest of wing-coverts dull brown. Total length 6·5 inches, wing 3·3, tail 3·1, tarsus 0·6.

Young male. Darker chestnut than the female, and with a slight glossy maroon shade; purple of head more distinct: throat darker slate-colour; centre of body pure white, the flanks chocolate-brown. (*Mus. H. Seeböhm.*)

Hab. China and Japan, ranging south into the Malayan peninsula.

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|---------------------|---------------------|----------------------|
| <i>a.</i> Ad. sk. | China. | |
| <i>b.</i> ♂ ad. sk. | Shanghai, May 1851. | R. Webbe, Esq. [P.]. |
| <i>c.</i> ♀ ad. sk. | Japan. | Zoological Society. |
| <i>d.</i> ♂ ad. sk. | Malacca. | |
| <i>e.</i> ♂ ad. sk. | Malacca. | Purchased. |
| <i>f.</i> Juv. sk. | Kessang, Malacca. | M. Bouvier. |

13. *Terpsiphone atrichalybea*.

Muscipeta atrochalybea, Thomson, *Ann. Nat. Hist.* x. p. 104; *Hartl.*

Beitr. Orn. W.-Afr. p. 46; *Bocage, Journ. Lisb.* ii. p. 9.

Tchitrea atrochalybea, *Hartl. Orn. W.-Afr.* p. 92; *Gray, Hand-l. B.* i. p. 333, no. 5009.

Terpsiphone atrichalybea, *Finsch & Hartl. Vög. Ostaf.* p. 313, note; *Reichen. J. f. O.* 1877, p. 22.

Adult male (type of species). General colour above glossy greenish black, with more or less of a steel-blue lustre, especially on the least and median wing-coverts; greater coverts and quills black, edged with steel-blue, nearly obsolete on the primaries; tail black, with dull steel-green edges to the feathers; under surface of body steel-green, duller on the abdomen and under tail-coverts, which are edged with the greenish colour; under wing-coverts like the breast; quills ashy black below. Total length 9·5 inches, culmen 0·6, wing 3·05, tail 3·5, centre tail-feathers 5·9, tarsus 0·8.

Hab. Congo region in West Africa, Fernando Po, St. Thomas.

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|---------------------|--------------|---|
| <i>a.</i> ♂ ad. sk. | Fernando Po. | Dr. Thomson [P.]. (Type of species.) |
|---------------------|--------------|---|

14. *Terpsiphone corvina*.

Tchitrea corvina, *E. Newton, P. Z. S.* 1867, p. 345; *id. Ibis*, 1867, p. 349, pl. 4; *Gray, Hand-l. B.* i. p. 333, no. 5023; *Hartl. Vög. Madag.* p. 177.

Adult male. General colour above and below glossy blue-black; the wings and tail black, washed with blue-black on the edges. Total length 13·5 inches, culmen 0·7, wing 3·75, tail 3·8, centre tail-feathers 10·5, tarsus 0·8.

Adult female (Praslin, Seychelles, Feb. 16, 1867). General colour above dark chestnut, the wing-coverts a little duller chestnut, with dusky-brown inner webs: bastard wing, primary-coverts, and quills dusky brown, narrowly edged with chestnut, the secondaries much

more broadly, the innermost almost entirely chestnut, with a shade of dusky brown along the shaft on the outer web; tail-feathers dull chestnut, the two centre ones shaded with brown at the ends, all the rest, excepting the outermost feather, dusky brown on the outer web; head all round, including sides of face and throat, black, with a glossy purple gloss; remainder of under surface white, with a tinge of chestnut on the under tail-coverts; under wing-coverts and axillaries white, washed with chestnut; quills ashy brown below, edged with rufous along the inner webs; "bill, skin round the eye, and legs bluish lead-colour; iris light hazel" (*E. Newton*). Total length 7 inches, culmen 0.6, wing 3.25, tail 3.75, tarsus 0.7. (*Mus. A. & E. Newton*.)

Hab. Seychelles.

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| a. ♂ ad. sk. | Seychelles. | Paris Museum. |
| b. ♂ ad. sk. | Praslin, Seychelles. | Paris Museum [P.]. |

49. ELMINIA.

Type.

Elminia, *Bp. C. R.* xxxviii. p. 652 (1854) *E. longicauda*.



Bill of *Elminia longicauda*.

Range. Confined to Africa.

Key to the Species.

- a. Outer tail-feathers dull brown, externally blue, with a whitish edging to the inner web.
 - a'. Lores blue, like the head. *longicauda*, p. 363.
 - b'. Lores black; bill larger than in preceding *terresita*, p. 364.
- b. Outer tail-feathers white; abdomen white, washed with grey *albicauda*, p. 364.

1. *Elminia longicauda*.

African Tody, *Lath. Gen. Hist.* iv. p. 91.

Myiagra longicauda, *Swains. Monogr. Flyc.* p. 210, pl. 25; *Gray, Gen.*

B. i. p. 261; *id. Hand-l. B. i.* p. 328, no. 4933.

Muscipeta caerulea, *Hartl. J. f. O.* 1854, p. 25.

Elminia longicauda, *Bp. C. R.* xxviii. p. 652; *Hartl. Orn. W.-Afr.* p. 93; *id. J. f. O.* 1861, p. 168; *Sharpe, Ibis*, 1869, p. 383; *id. Cat. Afr. B.* p. 42, no. 400; *Shelley & Buckley, Ibis*, 1872, p. 287; *Sharpe & Bouvier, Bull. Soc. Zool. France*, i. p. 45; *Reichen. J. f. O.* 1877, p. 22; *Bocage, Orn. Angola*, p. 191; *Nicholson, P. Z. S.* 1878, p. 129.

Adult. General colour above verditer-blue, brighter and rather more silvery blue on the head; quills blackish, externally edged with verditer-blue, inclining to silvery blue on the least wing-coverts, the

remainder of the latter like the quills; tail-feathers verditer-blue, blackish on their inner webs; sides of face and ear-coverts like the crown; under surface of body pale ashy grey, with a wash of blue; throat and fore neck verditer-blue; centre of abdomen whitish; thighs grey; under wing-coverts and axillaries ashy grey, the edge of the wing brighter blue. Total length 6·4 inches, culmen 0·5, wing 2·65, tail 3·9, tarsus 0·65.

Hab. Western Africa.

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| a. Ad. st. | [West Africa.] | |
| b. Ad. sk. | Fantee. | R. B. Sharpe, Esq. |
| c. Ad. sk. | River Volta (<i>Ussher</i>). | R. B. Sharpe, Esq. |
| d, e. Ad. sk. | Abeokuta. | F. Nicholson, Esq. [P.]. |

2. *Elminia teresita*.

Elminia teresita, *Antin. Cat. Descr. Ucc.* p. 50.

Elminia alexinae, *Heugl. J. f. O.* 1864, p. 255, et 1867, p. 203.

Elminia longicauda minor, *Heugl. Orn. N.O.-Afr.* p. 446, tab. 15.

Myiagra teresita, *Gray, Hand-l. B. i.* p. 328, no. 4934.

Elminia minor, *Bocage, Journ. Lisb.* 1877, p. 18.

Adult. Similar to *E. longicauda* of West Africa, but differs in its smaller size, slightly crested head, paler colours, and weaker feet. Plumage dense and loose, everywhere beautiful pale azure-blue; the breast, under tail-coverts, and flanks paler, the latter washed with ashy; centre of abdomen white; lateral margin of the forehead and lores deep black; quills and greater wing-coverts smoky brown, externally margined with delicate azure, the latter tipped with white; the inner web of the tail-feathers, the region of the shaft, darker smoky brown, the two middle feathers pale azure with black shafts, the rest pale blue on the outer web, with white tips to both webs; bill, rectal bristles, and feet black; iris dusky. Total length 5" 2"', bill from front 4"', wing 2" 2"', tail 2" 3"', tarsus 5½"–6½", centre tail-feathers 2" 9"–2" 10"'. (*Heuglin*.)

Hab. Central N.E. Africa.

3. *Elminia albicauda*.

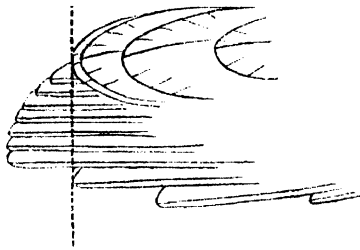
Elminia albicauda, *Bocage, Journ. Lisb.* 1877, p. 18.

Adult. Similar to *E. minor* (= *E. teresita*) of N.E. Africa, but differing in its crested head, its white abdomen washed with rose-colour; the outer tail-feathers also are white, the three following broadly tipped with white, decreasing in extent towards the middle ones. Total length 150 millims., wing 63, tail 84, bill 9, tarsus 15. (*Bocage*.)

Hab. Benguela.

50. PHILENTOMA.

Type.

Philentoma, *Eyton, Ann. N. H.* xvi. p. 229 (1845).. *P. pyrrhopterum*.Wing of *Philentoma velatum*.

Range. From Tenasserim down the Malayan peninsula to the islands of Java, Sumatra, and Borneo.

Key to the Species.

- a.* Wings and tail blue, like the back.
 - a'.* Throat and chin alike in colour.
 - a''.* Larger; wing 3·8 inches: forehead, lores, ear-coverts, and throat entirely black. *velatum* ♀, p. 366.
 - b''.* Smaller; wing 3 inches: lores, ear-coverts, and throat blue; forehead and eyebrow a little lighter blue. *pyrrhopterum* ♂, p. 366.
 - b'.* Chin black; lower throat and fore neck maroon *velatum* ♂, p. 366.
- b.* Wings and tail chestnut.
 - c'.* Head and neck all round, throat, and chest blue *pyrrhopterum* ♂ juv., p. 367.
 - d'.* Head ashy brown, slightly glossed with greenish; throat and chest rufous-buff *pyrrhopterum* ♀, p. 366.

1. *Philentoma velatum*.

- Drymophila velata*, *Temm. Pl. Col.* 334.
Monacha velata, *Swains. Classif. B.* ii. p. 257.
Monacha caesia, *Less. Rev. Zool.* 1839, p. 167.
Muscicapa pectoralis, *Hay, Madr. Journ.* xii. pt. 2, p. 161.
Myiagra pectoralis, *Strickl. P. Z. S.* 1846, p. 101.
Monarcha velata, *Gray, Gen. B.* i. p. 260; *Bp. Consp.* i. p. 326
Philentoma velatum, *Blyth, Cat. B. Mus. A. S. B.* p. 204; *Bp. Consp.* i. p. 324; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 392; *Moore, P. Z. S.* 1854, p. 270; *Jerd. B. Ind.* i. p. 449; *Gray, Hand-l. B.* i. p. 334, no. 5027; *Walden, Ibis*, 1872, p. 373; *Salvad. Ucc. Born.* p. 132; *Sharpe, Ibis*, 1877, p. 19; *Hume & Davison, Str. F.* 1878, p. 224.
Philentoma unicolor, *Blyth, Ibis*, 1865, p. 46.
Tchitrea velata, *Gray, Hand-l. B.* i. p. 334, no. 5027.
Tchitrea unicolor, *Gray, Hand-l. B.* i. p. 334, no. 5028.

Adult male. General colour bright greyish blue, the wing-coverts like the back: quills and tail-feathers like the back, internally blackish; under surface of body greyish blue like the back, a little duller, the long flank-plumes silky white with blue tips: forehead, lores, ring round the eye, ear-coverts, and half the throat black: lower half of throat and fore neck deep maroon; "bill black; feet dark greenish black" (*A. Everett*), "bluish or purplish black" (*Davison*); "iris crimson" (*A. Everett*), "lake to crimson" (*Davison*). Total length 7.5 inches, culmen 0.75, wing 3.85, tail 3.3, tarsus 0.75.

Adult female. General colour dull blue, almost uniform above and below: long flank-plumes with partially concealed silky-white bases: base of the forehead, lores, cheeks, throat, and breast black, the rest of the under surface somewhat shaded with blackish; quills and tail-feathers blackish, externally greyish blue; "legs dark green-black; iris crimson" (*A. Everett*). Total length 7.9 inches, culmen 0.7, wing 3.8, tail 3.5, tarsus 0.7.

Hab. Southern half of Tenasserim provinces, Malayan peninsula, Sumatra, Borneo.

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| <i>a.</i> ♂ ad.; <i>b.</i> ♂ juv. sk. | Malacca. | A. R. Wallace, Esq. [C.]. |
| <i>c, d.</i> ♂ ♀ ad.; <i>e.</i> ♂ juv. sk. | Kessang, Malacca. | M. Bouvier. |
| <i>f.</i> ♂ ad.; <i>g, h.</i> ♂ juv. sk. | Sumatra. | A. R. Wallace, Esq. [C.]. |
| <i>i.</i> ♂ ad. sk. | Sarawak, Borneo. | A. R. Wallace, Esq. [C.]. |
| <i>k, l.</i> ♂ ♀ ad. sk. | Sarawak, Borneo. | Governor Ussher [P.]. |
| <i>m.</i> ♂ ad.; <i>n.</i> ♂ juv. sk. | Bindulu, N.W. Borneo. | Alfred Everett, Esq. [C.]. |

•2. *Philentoma pyrrhoptera*.

Muscicapa pyrrhoptera, *Tenm. Pl. Col.* 596, fig. 2; *Low, Sarawak*, p. 410.

Muscipeta plumosa, *Blyth, J. A. S. B.* xi. p. 79.

Philentoma castaneum, *Eyton, Ann. N. H.* xvi. p. 229; *Hartl. Rev. Zool.* 1846, p. 5.

Philentoma plumosum, *Blyth, J. A. S. B.* xv. p. 10.

Tchitrea pyrrhoptera, *Gray, Gen. B.* i. p. 260; *id. Hand-l. B.* i. p. 334, no. 5026.

Philentoma pyrrhoptera, *Blyth, Cat. B. Mus. A. S. B.* p. 205; *Bp. Consp.* i. p. 324; *Jerd. B. Ind.* i. p. 449; *Salvad. Ucc. Born.* p. 138; *Sharpe, Ibis*, 1877, p. 19; *Twedd. t. c.* p. 316; *Hume & Davison, Str. F.* 1878, p. 223.

Adult male. General colour above and below greyish blue, a little lighter on the forehead and over the eye and on the throat; the long silky plumes of the flanks and abdomen white, mixed with greyish blue, the edges to the feathers being of this colour; wings like the back, the lesser wing-coverts slightly brighter blue; thighs blue; quills and tail-feathers dusky blackish on the inner web, greyish blue externally; "bill black; iris crimson" (*A. Everett*); "legs, feet, and claws pale purplish blue" (*Davison*). Total length 6.5 inches, culmen 0.75, wing 3.25, tail 2.8, tarsus 0.65.

Adult female. Different from the male. General colour above

earthy brown, lightly washed with olive, slightly more rufescent on the rump and upper tail-coverts, some of the rump-plumes with concealed white bases; head dingy ash-brown, as well as the sides of the face and ear-coverts, the crown with a slight shade of dull greenish blue, especially round the eye; scapulars rather darker than the back; least wing-coverts dark brown, tinged with a wash of green, the outer ones tipped with ferruginous; remainder of wing-coverts chestnut; primaries dusky brown, externally edged with ashy; secondaries chestnut like the coverts, blackish on their inner webs; tail entirely chestnut; under surface of body rufous-buff, whiter towards the vent; sides of body and flanks earthy brown, washed with ashy on the sides of the breast; under wing-coverts and axillaries deep rufous-buff; quills dusky brown below, edged with rufous on the inner web, more broadly on the secondaries; "bill dark horn-colour; legs pale leaden; iris bright brown" (*A. Everett*); "upper mandible pale horny brown, the lower mandible fleshy white; legs, feet, and claws plumbeous olive; iris dull red" (*Davison*). Total length 5·8 inches, culmen 0·7, wing 3, tail 2·6, tarsus 0·6.

Young male. Resembles the adult female at first, but is generally distinguished by some greyish-blue feathers on some part of the plumage; generally the fore part of the bird above and below is blue, the back and abdomen retaining the female plumage, and the chestnut wings and tail still remaining.

In a young female, according to Mr. Davison, the legs and feet are pale horny red, the iris pale red speckled with white.

Hab. Extreme south of Tenasserim provinces, Malacca, Sumatra, Borneo.

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| <i>a.</i> ♂ imm. sk. | Malacca. | Hon. E. India Co. [P.]. |
| <i>b.</i> ♂ imm. sk. | Malacca. | W. Harvey, Esq. [P.]. |
| <i>c.</i> ♀ ad. sk. | Mount Ophir, Malacca. | A. R. Wallace, Esq. [C.]. |
| <i>d, e.</i> ♂ ad. sk. | Kessang, Malacca. | M. A. Bouvier. |
| <i>f, g.</i> ♂ ♀ ad. sk. | Sumatra. | A. R. Wallace, Esq. [C.]. |
| <i>h.</i> ♂ juv. sk. | Sumatra. | A. R. Wallace, Esq. [C.]. |
| <i>i.</i> ♀ ad. sk. | N.W. Borneo. | Hugh Low, Esq. [C.]. |
| <i>k, l.</i> ♂ ♀ ad. sk. | Lumbidan. | Governor Ussher [C.]. |
| <i>m.</i> ♂ juv. sk. | Lumbidan. | Governor Ussher [C.]. |
| <i>n.</i> ♂ ad.; <i>o.</i> ♂ juv. sk. | Bintulu. | Alfred Everett, Esq. [C.]. |
| <i>p.</i> ♀ ad. sk. | Sibu. | Alfred Everett, Esq. [C.]. |
| <i>q.</i> ♀ ad. sk. | Sarawak. | A. R. Wallace, Esq. [C.]. |

51. RHINOMYIAS.

Setaria, pt., *auctt. recent.* (*nec Blyth*).

Range. Borneo and the Philippine island of Basilan.

Key to the Species.

- a.* Tail brown on the inner web, rufous-brown only on the outer; ear-coverts brown *pectoralis*, p. 368.
- b.* Tail entirely chestnut; ear-coverts grey *ruficauda*, p. 368.

1. *Rhinomyias pectoralis*.

Aleippe pectoralis, *Salvad. Atti R. Accad. Torin.* ii. p. 530.

Brachypteryx pectoralis, *Giebel, Orn. Thes.* i. p. 477.

Setaria pectoralis, *Salvad. Ucc. Born.* p. 233, tav. 4. fig. 1; *Sharpe, Ibis*, 1877, p. 12.

Adult male. General colour above dark ochraceous brown, the head decidedly duller than the back; lesser and median wing-coverts like the back; bastard wing and primary-coverts uniform dull brown; quills dull brown, narrowly edged with the same brown as the back on the outer web, the secondaries more broadly margined with the same colour; tail-feathers dark brown, externally washed with dark ochraceous brown; lores white, with dusky-brown bases; a ring round the eye blackish brown; cheeks, ear-coverts, and sides of face dark brown, with a wash of ochraceous brown; under surface of body white, with an ashy-grey band across the chest, the sides of which are washed with ochraceous brown, the flanks and thighs entirely of this colour; under wing-coverts and axillaries white, those near the edge of the wing dark brown, forming a patch; quills dark brown below, with fulvescent edges along the inner web; "bill black; legs light purplish; iris light brown." Total length 6 inches, culmen 0·6, wing 3, tail 2·5, tarsus 0·7.

Adult female. Similar to the male, but the pectoral band browner. Total length 5·5 inches, culmen 0·6, wing 2·85, tail 2·5, tarsus 0·7.

Young. Lighter brown than the adult; below yellowish buff, whiter on the throat, abdomen, and under tail-coverts.

Hab. Sumatra and Borneo.

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| <i>a.</i> ♂ juv. sk. | Sumatra (<i>Van Horner</i>). | Leyden Museum [P.] |
| <i>b.</i> ♀ ad. sk. | Borneo (<i>Schwaner</i>). | Leyden Museum [P.] |
| <i>c, d, e.</i> Ad. sk. | N.W. Borneo. | Hugh Low, Esq. [C.] |
| <i>f, g.</i> ♂ ♀ ad. sk. | Bintulu, W. Borneo. | Alfred Everett, Esq. [C.]. |
| <i>h, i.</i> Ad. sk. | Sarawak. | Henry Everett, Esq. [C.]. |
| <i>k.</i> ♂ ad. sk. | Sarawak. | A. R. Wallace, Esq. [C.]. |

2. *Rhinomyias ruficauda*.

Setaria ruficauda, *Sharpe, Tr. Linn. Soc.* new series, vol. i. p. 327.

Adult male. General colour above dull ochraceous brown, more dusky on the head; least wing-coverts like the back; median and greater series as well as the quills dull brown, edged with ochraceous brown like the back, the secondaries more broadly washed on the outer web, the innermost especially so; primary-coverts and bastard plumes dusky brown, with a very slight olive shade on the outer margin; upper tail-coverts and tail-feathers chestnut-rufous, with a slight shade of rufous-brown on the outer webs; lores and space before the eye dull white, mottled with dusky bases to the feathers; ear-coverts and sides of face dull greyish; under surface of body white, with a slight greyish shade, more distinct on the flanks, which are also somewhat washed with ochraceous brown, as also

are the sides of the upper breast; thighs brown; under wing-coverts and axillaries white, the edge of the wing browner; quills dusky brown below, buffy white along the edge of the inner web; "iris hazel" (*Steere*). Total length 5·5 inches, culmen 0·65, wing 2·95, tail 2·4, tarsus 0·7.

Hab. Island of Basilan, Philippine archipelago.

a. ♂ ad. sk. Basilan. Dr. J. B. Steere [C.]. (One of the typical specimens.)

52. CULICICAPA.

Type.

Cryptolopha, *auct.* (*nec Swains.* 1837).

Myiolestes, *auct.* (*nec Cab.* 1850).*

Culicicapa, *Swinh. P. Z. S.* 1871, p. 381 *C. ceylonensis*.

Empidothera, *Sunder. Av. Meth. Tent.* p. 25 (1872) .. *C. ceylonensis*.

Xantholestes, *Sharpe, Tr. Linn. Soc.* 2nd series, i.

p. 327 (1877) *C. panayensis*.



Bill of *Culicicapa ceylonensis*.

Range. From India and Ceylon, extending through the Burmese countries down the Malayan peninsula to the islands of Java, the Philippines, and Celebes.

Key to the Species.

- a.* Head and throat grey; back greenish yellow;
under surface of body bright yellow *ceylonensis*, p. 369.
- b.* Head yellow or greenish.
 - a'.* Larger: head and sides of face bright yellow,
like the throat *helianthea*, p. 370.
 - b'.* Smaller: head and sides of face greenish *panayensis*, p. 371.

1. *Culicicapa ceylonensis*.†

Platyrrhynchus ceylonensis, *Swains. Zool. Illustr.* ser. i. pl. 13.

Cryptolopha poiocephala, *Swains. Nat. Hist. Flycatchers*, p. 200,
pl. 23.

Rhipidura ceylonensis, *Gray, Gen. B.* i. p. 259.

Cryptolopha ceylonensis, *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.*
p. 93.

Cryptolopha cinereocapilla, *Hutton, J. A. S. B.* xvii. p. 689; *Blyth,*
Cat. B. Mus. A. S. B. p. 205; *Bp. Consp.* i. p. 327; *Horsf. & Moore,*

* Cf. Sharpe, *Cat. B.* iii. p. 305.

† Several authors, commencing with Blyth, have attributed a *Muscicapa cinereocapilla* of Vieillot to this species. I have not succeeded in finding this name.

Cat. B. Mus. E.I. Co. i. p. 147; *Moore, P. Z. S.* 1854, p. 271; *Jerd. B. Ind. i.* p. 455; *Cock & Marsh. Str. F.* 1873, p. 352; *Adam, t. c.* p. 377.

Rhipidura cinereocapilla, Gray, Hand-l. B. i. p. 332, no. 5001.

Culicicapa cinereocapilla, Swinh. P. Z. S. 1871, p. 381; *Hume, Str. F.* 1874, p. 474; *Oates, Str. F.* 1875, p. 104; *Brooks, t. c.* p. 234; *Fairb. Str. F.* 1876, p. 257; *Armstr. t. c.* p. 322.

Myiolestes cinereocapilla, Holdsw. P. Z. S. 1872, p. 441; *Ball, Str. F.* 1874, pp. 404, 406.

Empidothra ceylonensis, Sunder. Av. Meth. Tent. p. 25.

Culicicapa ceylonensis, Salrad. Ucc. Born. p. 134; *David & Oustal. Ois. Chinc.* p. 113; *Fairb. Str. F.* 1877, p. 401; *Hume & Davison, Str. F.* 1878, p. 226.

Adult. General colour above greenish yellow, brighter yellow on the rump; wings dark brown, the coverts and quills edged with greenish yellow like the back: tail-feathers dusky brown, edged with greenish yellow; head and nape dull ashy grey, lighter on the nape, the head dusky brown in the centre; sides of face, throat, and fore neck lighter ashy grey, the feathers in front of the eye and the centre of the throat hoary grey; remainder of under surface bright yellow, the breast and sides of body slightly shaded with greenish; under wing-coverts yellow; quills dusky brown below, edged with ashy whitish along the inner web; "bill dusky; feet fleshy brown; iris brown" (*Holdsworth*); "bill horny brown above, pinkish fleshy below; inside of mouth fleshy; gape yellowish; iris dark brown; eyelid plumbeous; legs, feet, and claws pinkish brown" (*Oates*); "irides nearly black; bill dusky above, dirty white underneath; legs and feet brownish yellow" (*Armstrong*). Total length 4·2 inches, culmen 0·35, wing 2·35, tail 2·2, tarsus 0·5.

Hab. India and Ceylon; Burmese countries, ranging through the Malayan peninsula to Java and Borneo.

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| <i>a.</i> Ad. sk. | Cashmere. | R. B. Sharpe, Esq. [P.]. |
| <i>b, c, d, e.</i> Ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>f, g.</i> ♂ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>h.</i> Ad. sk. | Bassein, Pegu. | W. T. Blanford, Esq. [P.]. |
| <i>i.</i> ♀ ad. sk. | Naga hills. | Col. Godwin-Austen [P.]. |
| <i>k.</i> Ad. sk. | Lower Pegu, Jan. 26, 1878 (<i>E. Oates</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>l.</i> ♀ ad. sk. | West Java. | A. R. Wallace, Esq. [C.]. |
| <i>m.</i> Ad. sk. | Sarawak. | A. R. Wallace, Esq. [C.]. |
| <i>n, o, p.</i> Ad. sk. | Sarawak. | Henry Everett, Esq. [P.]. |

2. *Culicicapa helianthea.*

Muscicapa helianthea, Wallace, P. Z. S. 1865, p. 476; *Gray, Hand-l. B. i.* p. 321, no. 4818.

Myiolestes helianthea, Walden, Tr. Z. S. viii. p. 66, pl. 7. fig. 1.

Culicicapa helianthea, Salrad. Ucc. Born. p. 135.

Xantholestes helianthea, Sharpe, Tr. Linn. Soc. new series, i. p. 327.

Adult female (type of species). Above greenish yellow, inclining

to bright yellow on the rump, the head a little dingier than the back; lores and a ring of feathers round the eye bright yellow; below the fore part of the eye a dusky greenish spot; sides of face and under surface of body bright yellow, richer on the abdomen and under tail-coverts; flanks very slightly washed with greenish; under wing-coverts yellow; wings brown, coverts and quills edged with greenish yellow, the least and median series of coverts uniform with the back, the greater coverts tipped with yellow; tail-feathers dusky brown, edged with yellow. Total length 4·7 inches, culmen 0·4, wing 2·4, tail 2, tarsus 0·5.

Hab. Island of Celebes.

- a.* ♀ ad. sk. Menado, N. Celebes. A. R. Wallace, Esq. [C.]
(Type of species.)
b. Ad. sk. Menado. A. R. Wallace, Esq. [C.]

3. *Culicicapa panayensis*.

Xantholestes panayensis, *Sharpe, Tr. Linn. Soc. new series*, i. p. 327.

Adult male (type of species). General colour above olive-yellow, the head and sides of face greenish; wing-coverts, quills, and tail-feathers brown, margined with yellow; lores yellow; underneath very bright yellow, the throat rather duller. Total length 4·7 inches, culmen 0·45, wing 2·2, tail 2·2, tarsus 0·5. (*Mus. Stgere.*)

Hab. Island of Panay, Philippines.

53. MYIAGRA.

Type.

Myiagra, *Vigors & Horsf. Tr. Linn. Soc.* xv. p. 250

(1826) M. *rubecula*.

Platygnathus, *Hartl. in Wiegmann Arch.* 1852, p. 132. M. *rufiventris*.



Bill of *Myiagra melanura*.

Range. Australia and Tasmania; Austro-Malayan region and Oceania.

Key to the Species.

- a.* Throat leaden grey or greenish black, like the head.
a'. Abdomen white.
a''. Back ashy or leaden grey, with a slight gloss on the head.
a'''. Lores dusky greyish or lead-colour, not darker than the sides of the face. *rubecula* ♂, p. 373.
b'''. Lores and feathers in front of the eye black *concinna* ♂, p. 374.

- [illegible]

1. *Myiagra rubecula*.

Red-breasted Tody, *Lath. Gen. Syn. Suppl.* p. 147.

Todus rubecula, *Lath. Ind. Orn. Suppl.* p. xxxii.

Platyrrhynchus rubecula, Vieill. N. Diet. d'Hist. Nat. xxvii. p. 16.

Myiagra rubeculoides, Vig. & Horsf. Tr. Linn. Soc. xv. p. 253.

Myingra plumbea, *Fig. & Horsf. Tr. Linn. Soc.* xv. p. 254; *Gould, B. Austr.* folio, ii. pl. 89; *Blyth, Cat. B. Mus. A. S. B.* p. 204; *Bp. Consp.* i. p. 321; *Reichenb. Vög. Neuholl.* p. 96; *Gould, Handb. B. Austr.* i. p. 252; *Ramsay, Ibis*, 1865, p. 301; *Diggles, Orn. Austr.* pl. 38, figs. 3, 4; *Legge, Pr. R. Soc. Tasm.* 1875, p. 10; *Ramsay, P. Z. S.* 1875, p. 587; *id. Pr. Linn. Soc. N. S. W.* ii. p. 182.

Myiagra rubecula, Gray, *Gen. B.* i. p. 261; *id. Hand-l. B.* i. p. 327, no. 4915.

Myiagra leucogastra, *Blyth, J. A. S. B.* xiii, p. 336.

Myiagra nitida, *Pelz. Ibis*, 1873, p. 113.

Myiagra concinna (nec Gould), *Salvad. & D'Albert. Ana. Mus. Civic. Genor.* vii. p. 819; *Salvad. op. cit.* ix. p. 24; *Sharpe, Journ. Linn. Soc.* xiii. p. 498.

Adult male. General colour above leaden grey, with a steel-green gloss; wing-coverts like the back; quills dusky brown, externally ashy grey; tail-feathers dusky brown, edged with grey, slightly glossed with green; sides of face, sides of neck, throat, and fore neck leaden grey, like the back, but more distinctly glossed with

steel-green; feathers in front of eye dull greyish; remainder of under surface white; thighs dusky; under wing-coverts and axillaries white; quills ashy brown below, white along the inner web; "bill leaden blue, except at the tip, which is black; feet black; iris black" (*Gould*). Total length 5·7 inches, culmen 0·65, wing 3·1, tail 2·8, tarsus 0·65.

Adult female. General colour above bluish grey, rather duller and browner on the back; wing-coverts and quills dusky brown, externally edged with bluish grey, the least series like the back; tail-feathers light ashy brown, with reddish-brown shafts, the outer feathers considerably paler both at the tips and on the outer webs; forehead and lores slightly hoary; feathers below the eye darker slate-colour; eyelid dull whitish; cheeks, throat, and fore neck light reddish buff, paler on the breast; rest of under surface of body white, the flanks slightly washed with grey; thighs dusky; under wing-coverts white, with dusky bases; quills ashy brown below, white along the edge of the inner web. Total length 5·2 inches, culmen 0·5, wing 2·8, tail 2·6, tarsus 0·6.

Obs. I consider *M. concinna* to be really a distinct species from *M. rubecula*, but on totally different grounds from those given by Mr. Gould. Indeed, if we did not know that his specimens were from North-west Australia, his figures and descriptions would be referable to *M. rubecula*. The chief difference in the male birds is the presence of the black frontal line and black lores of *M. concinna*. The specimens from South-eastern New Guinea belong to *M. rubecula*, not to *M. concinna*.

Hab. Australia and Tasmania, ranging into South-eastern New Guinea.

| | | |
|-------------------------|--|--|
| a. ♂ ad. sk. | Australia. | Linnean Society [P]. (Type of <i>M. plumbea</i> .) |
| b. ♀ ad. sk. | Australia. | Linnean Society [P]. (Type of <i>M. rubecula</i> .) |
| c. ♀ ad. sk. | Australia. | |
| d, e. ♂ ♀ ad. sk. | Port Albany. | Purchased. |
| f. ♂ juv. sk. | Dunk Island. | J. Macgillivray, Esq. [C]. |
| g. ♂ ad. st. | Tasmania. | Ronald Gunn, Esq. [P]. |
| h. ♀ ad.; i. ♂ juv. sk. | Near Port Moresby, S.E. New Guinea. | O. C. Stone, Esq. [C]. |

2. *Myiagra concinna*.

Muscivore plombé, *Honbr. et Jacq. Voy. Pôle Sud*, Atlas, pl. 12 bis, fig. 2.

Myiagra concinna, *Gould, B. Austr.* ii. pl. 90; *Bp. Consp.* i. p. 321; *Reichenb. Vög. Neuholl.* p. 224, no. 571; *Gould, Handb. B. Austr.* i. p. 254; *Finsch, Neu-Guinea*, p. 170; *Digges, Orn. Austr.* text to pl. 38; *Gray, Handb. B.* i. p. 328, no. 4917; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 182.

Myiagra grisca, *Jacq. et Pucher. Voy. Pôle Sud*, texte, iii. p. 78.

Adult male. General colour above leaden grey, with a steel-greenish gloss, deeper on the head, sides of face, sides of neck, throat,

and fore neck, which are steel-green of an ashy shade; a narrow frontal line, lores, and feathers in front of the eye black; rest of under surface pure white, including the under wing-coverts and axillaries; wing-coverts above ashy grey like the back, glossed with green; quills dusky brown, edged with ashy whitish, below greyish brown, edged with whitish along the inner web; tail-feathers ashy brown, edged with steel-greenish; "bill leaden-blue, black at extreme tip; feet blackish grey; iris brown" (*Gould*). Total length 5·6 inches, culmen 0·55, wing 2·95, tail 2·65, tarsus 0·65.

Hab. Northern and North-western Australia.

| | | |
|-------------------|--------------------------------------|-------------------------|
| a, b. ♂ ♀ ad. st. | Port Essington. | Capt. W. Chambers [P.]. |
| c. ♂ ad. sk. | Port Essington. | Capt. W. Chambers [P.]. |
| d. ♂ ad. sk. | N.W. Australia, Feb. 21, 1856. | J. R. Elsey, Esq. [P.]. |
| e, f. ♂ ad. sk. | Dépôt, Victoria River, Nov. 1855. | J. R. Elsey, Esq. [P.]. |

3. *Myiagra nitida*.

Myiagra nitida, *Gould*, *P. Z. S.* 1837, p. 142; *Gray*, *Gen. B.* i. p. 261; *Gould*, *B. Austr.* folio, ii. pl. 91; *Reichenb. Vög. Neuhol.* p. 223, no. 570; *Bp. Consp. Gen. Av.* i. p. 321; *Jacq. et Pucher. Voy. Pôle Sud*, texte, iii. p. 78; *Gould, Handb. B. Austr.* i. p. 255; *Gray, Hand-l. B.* i. p. 328, no. 4916; *Diggles, Orn. Austr.* pl. 38, fig. 2; *Ramsay, P. Z. S.* 1875, p. 586.

Myiagre brillant, *Houbr. et Jacq. Voy. Pôle Sud*, Atlas, pl. 12 bis, fig. 4.

Myiagra rubecula, *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 182 (*nec Lath.*).

Adult male. General colour above glossy steel-black with a greenish shade; wing-coverts uniform with the back; greater coverts and quills black, edged with steel-green, the innermost secondaries washed with green; tail black, edged with steel-green; sides of face, sides of neck, throat, and fore neck glossy greenish black; remainder of under surface white, including the under wing-coverts and axillaries, the latter with black bases; sides of body shaded with dusky grey; thighs white, with dusky bases; quills blackish below, edged with white along the inner web; "bill lead-colour at base, passing into black at the tip; feet black; iris black" (*Gould*). Total length 6·6 inches, culmen 0·6, wing 3·55, tail 3·2, tarsus 0·65.

Adult female. Different from the male. General colour above brown shaded with slaty grey, the latter colour more developed on the rump and upper tail-coverts; wing-coverts uniform with the back, the primary-coverts darker brown; quills externally edged with ashy brown; tail brown, with pale shafts, the penultimate feather lighter brown, the outermost still paler, edged with white along the outer web and at the tip of the inner one; head darker slate-colour than the back, and strongly glossed with steel-blue; ear-coverts and feathers under the eye blackish; forehead washed with hoary grey; feathers in front of the eye and eyelid dusky white; cheeks, throat, and fore neck orange-rufous, the rest of the

under surface white, slightly washed with orange-buff, the flanks washed with dusky grey; thighs dull brown: under wing-coverts and axillaries pale orange-fulvous, with dusky bases; quills ashy brown below, edged with white along the inner web. Total length 6·4 inches, culmen 0·6, wing 3·35, tail 3·15, tarsus 0·65.

Young male. Similar to the old female, but with more gloss on the upper surface, the orange of the throat much deeper and more chestnut, and slightly shaded with black.

Hab. Australia and Tasmania.

| | | |
|-------------------|--------------------------------|----------------------------|
| a. ♂ ad. st. | Australia. | J. Gould, Esq. [P.]. |
| b. ♂ juv. st. | Australia. | J. Gould, Esq. [P.]. |
| c. d. ♂ ♀ ad. sk. | Port Albany. | Purchased. |
| e. ♀ ad. sk. | Cape Upstart, April 1st, 1843. | J. B. Jukes, Esq. [P.]. |
| f. ♀ ad. sk. | Tasmania. | Ronald Gunn, Esq. [P.]. |
| g. ♂ ad. sk. | Tasmania. | Antarctic Expedition [C.]. |

4. *Myiagra rufiventris*. (Plate XI. fig. 1.)

*Platyrhynchus vanikorensis**, *Quoy et Gaim. Voy. de l'Astrol. i. p. 183, pl. 5. fig. 1*; *Hartl. in Wiegmann. Arch. 1852, p. 101*; *Peale, U.S. Expl. Exp. p. 102*.

Muscicapa vanikorensis, *Gray, Gen. B. i. p. 263*.

Platygathus vanikorensis, *Hartl. in Wiegmann. Arch. 1852, p. 132*.

Myiagra vanikorensis, *Cass. U.S. Expl. Exp. p. 148*; *Gray, Hand-l. B. i. p. 329, no. 4936*.

Myiagra rufiventris, *Elliot, Ibis, 1859, p. 393*.

Myiagra castaneiventris (nec *Monarcha castaneiventris*, Verr.†), *Finsch & Hartl. Faun. Centralpolyn. p. 93, pl. 9. figs. 2, 3*; *Whitmee, Ibis, 1875, p. 447*; *Layard, P. Z. S. 1875, p. 435*; *id. Ibis, 1876, p. 392*; *Finsch, P. Z. S. 1877, p. 734*.

Adult male. General colour slaty grey, with a greenish gloss, the sides of the rump more decidedly greyer; wings dark brown, the least and median coverts greenish; greater coverts greyish, edged with greenish; quills edged with grey, slightly shaded with green; tail ashy brown, glossed slightly with green, the outer feathers narrowly edged with white at the tip of the inner web; head all round, throat, fore neck, and sides of neck glossy greenish black, the rest of the under surface chestnut; thighs white, with grey bases; under wing-coverts and axillaries white, slightly tinged with yellowish; quills dusky brown below, ashy whitish along the edge of the inner web; "bill blue-black; legs the same; iris brown" (*Layard*). Total length 5·5 inches, culmen 0·65, wing 3, tail 2·5, tarsus 0·7.

Adult female. Differs from the male in being much paler in colour; upper surface ashy grey, without any greenish gloss; wings

* Dr. Oustalet kindly informs me that the type of *M. vanikorensis* is undoubtedly of the same species as *M. rufiventris*; but the name cannot be used as it perpetuates an error in locality.

† This species of Verreaux's, apparently represented only by the unique specimen in the British Museum, is quite a different bird, and belongs to the genus *Pomarea*. I have figured both species on the same Plate to clear up the matter.

and tail brown, externally edged with grey: head darker than the back, and strongly glossed with green: sides of face and ear-coverts dark like the crown; in front of the eye a spot of dull white; cheeks and under surface of body light chestnut or cinnamon-buff, the chin and fore part of cheeks whiter; thighs whitish; under wing-coverts and axillaries white, with blackish bases; quills dusky brown below, edged with white along the inner web: "bill blue; legs blue-black; iris reddish brown" (*Layard*). Total length 5.2 inches, culmen 0.6, wing 2.75, tail 2.25, tarsus 0.65.

Hab. Fiji Islands: universally distributed.

| | | |
|-------------------|---|--|
| a. Ad. sk. | [Samoan Islands.] | Purchased. (Type of <i>M. rufiventris</i> .) |
| b. ♂ ad. sk. | Ovalau, Sept. 15, 1874. | E. L. Layard, Esq. [C.]. |
| c. ♀ ad. sk. | Ovalau, June 12, 1875. | E. L. Layard, Esq. [C.]. |
| d. ♂ ad. sk. | Levuka, Ovalau, July 1865. | J. Brechley, Esq. [P.]. |
| e. ♂ ad. sk. | Matuku Island (<i>Voyage of the 'Herald'</i>). | F. M. Rayner, Esq. [P.]. |
| f, g. ♂ ♀ ad. sk. | Ngan Island. | F. M. Rayner, Esq. [P.]. |
| h. ♂ ad. sk. | Matherata Island (<i>Layard</i>). | Rev. S. J. Whitmee. |
| i. ♂ ad. sk. | Kandavu, Sept. 1876 (<i>Kleinschmidt</i>). | Godeffroy Museum. |
| k. ♀ ad. sk. | Valu Lele, Aug. 23, 1876 (<i>Kleinschmidt</i>). | Godeffroy Museum. |

5. *Myiagra albiventris*.

Platyrhynchus albiventris, *Peale, U.S. Expl. Exp.* p. 103, pl. 27. fig. 3;

Hartl. in Wieg. Arch. 1852, p. 101.

Platygnathus albiventris, *Hartl. in Wieg. Arch.* 1852, p. 133.

Myiagra rubecula, *Cass. U.S. Expl. Exp.* p. 149 (*see Lath.*).

Myiagra albiventris, *Gray, Cat. B. Trop. Isl. Pacific Ocean*, p. 18;

Finsch & Hartl. Faun. Centralpolym. p. 93, pl. 9. fig. 1; *Gray,*

Hand-l. B. i. p. 328, no. 4926; *Whitmee, Ibis*, 1875, p. 440;

Layard, P. Z. S. 1876, p. 492.

Adult male. General colour above dull slaty grey, with a steel-grey lustre; wing-coverts like the back: greater coverts, primary-coverts, and quills blackish, without any lustre on the edges of the feathers, which are slightly shaded with slaty grey externally; tail black, slightly glossy on the edges of the feathers; head, sides of face, and ear-coverts glossy steel-greenish black; cheeks, throat, and chest rich chestnut; rest of under surface of body pure white, the sides of the upper breast slaty grey, glossed with steel-green; under wing-coverts and axillaries white, with dusky black bases; quills slaty black below, narrowly edged with white along the inner web; "bill light blue; legs black; iris brown" (*Peale*). Total length 5.5 inches, culmen 0.6, wing 2.85, tail 2.55, tarsus 0.6.

Adult female. Similar to the male, but not so richly coloured, the head and sides of face not much darker than the back, and with no more gloss; lores greyish; chestnut colour of throat not so rich, and

not extending so far down as in the male. Total length 5·3 inches, culmen 0·6, wing 2·7, tail 2·25, tarsus 0·65.

Hab. Samoa or Navigators' Islands.

| | | |
|--------------------------|-----------------------|--------------------------|
| <i>a, b.</i> ♂ ♀ ad. sk. | Upolu, Samoa Islands. | Rev. S. J. Whitmee [C.]. |
| <i>c.</i> Ad. sk. | Samoa. | Godfrey Museum. |

6. *Myiagra modesta*.

Myiagra modesta, *Gray, Cat. B. Trop. Isl. Pacific Ocean*, p. 18; *id. Hand-l. B. i.* p. 328, no. 4925.

Adult (type of species). General colour above leaden grey, washed with glossy steel-green on the back; wing-coverts like the back; quills dusky brown, externally light leaden grey; tail-feathers leaden grey, dusky on the inner webs, narrowly edged with dull white at the tips, the outer feathers more plainly; head and neck glossy steel-green, of a leaden-grey cast, the ear-coverts and sides of face duller; a line at the base of the forehead and the feathers in front of the eye light grey; eyelid whitish; cheeks and under surface of body light orange-rufous, whiter on the throat and fore part of cheeks, and fading into buff on the sides of the body; abdomen, under tail-coverts, axillaries, and under wing-coverts white; thighs dusky, the feathers edged with white; quills ashy brown below, whitish along the inner web. Total length 5·7 inches, culmen 0·55, wing 2·75, tail 2·5, tarsus 0·8.

Hab. New Ireland.

| | | |
|-------------------|--------------|------------|
| <i>a.</i> Ad. sk. | New Ireland. | Purchased. |
|-------------------|--------------|------------|

7. *Myiagra caledonica*.

Myiagra caledonica, *Bp. Rev. et Mag. de Zool.* 1857, p. 55; *Gray, Hand-l. B. i.* p. 328, no. 4924; *id. in Breuchley's Cruise of the 'Curaçoa'*, pl. 8. fig. 2; *Layard, Ibis*, 1877, p. 358.

Myiagra perspicillata, *Gray, P. Z. S.* 1859, p. 161; *Finsch, New-Guinea*, p. 170; *Marie, Actes Soc. Linn. Bordeaux*, xxvii. p. 327; *Sclater & Salv. Ibis*, 1877, p. 362.

Myiagra viridinitens, *Gray, P. Z. S.* 1859, p. 162; *id. Cat. B. Trop. Isl. Pacific Ocean*, p. 18; *id. Hand-l. B. i.* p. 328, no. 4922; *Marie, Actes Soc. Linn. Bordeaux*, xxvii. p. 327; *Sclater & Salv. Ibis*, 1877, p. 362.

Adult male (type of species). Above glossy greenish black; wings dusky black, the coverts edged with greenish like the back; quills obscurely edged with dingy grey; tail black, with a slight whitish edging at the tip, increasing in extent towards the outermost, which is edged with white along the outer web; sides of face, sides of neck, entire throat, and fore neck greenish black like the back; rest of under surface of body pure white, the sides dusky grey; thighs dull brown; under wing-coverts and axillaries white, with blackish bases; quills ashy brown below, edged with white along the inner web. Total length 5·8 inches, culmen 0·65, wing 2·85, tail 2·7, tarsus 0·8.

Young male. General colour above dull leaden grey glossed with greenish, the head very little darker than the back, and more plainly glossed with dull greenish; least and median coverts uniform with the back, the greater series brown, narrowly tipped with whitish; quills brown, narrowly edged with lighter brown; tail-feathers brown, the penultimate one tipped with white on the inner web, the outermost white for nearly the terminal half, and edged with white along the outer web; lores, sides of face, and ear-coverts greenish black; eyelid white; cheeks, throat, and fore neck deep orange-rufous, almost chestnut; the rest of the under surface white, tinged with orange-buff on the sides of the body; under wing-coverts and axillaries light orange-buff; quills dark brown below, ashy whitish along the inner web; "iris dark brown" (*Brenchley*). Total length 5.5 inches, culmen 0.65, wing 2.7, tail 2.5, tarsus 0.7.

Adult female. Differs from the male in being paler and more ashy grey, browner on the back, the head alone with a dull greenish gloss; wing-coverts brown like the back, with a narrow whitish tip to the greater series; quills brown, margined with lighter brown, the inner secondaries edged with whitish at the tip; tail-feathers dark brown, slightly tipped with whitish, increasing in extent towards the outer feathers, the outermost white along the external web and for nearly the terminal third of the inner one; lores ashy grey; eyelid white; ear-coverts darker grey than the head; cheeks, sides of neck, throat, and chest orange-rufous, the breast buff, fading into white on the abdomen, vent, and under tail-coverts; thighs brown; under wing-coverts and axillaries light orange-buff; quills ashy brown below, light orange-buff along the inner web. Total length 5.2 inches, culmen 0.65, wing 2.65, tail 2.55, tarsus 0.65.

Hab. New Caledonia and Loyalty Islands.

| | | |
|---------------|---|--|
| a. ♂ ad. sk. | Port de France, New Caledonia, Oct. 1865. | J. Brenchley, Esq. [P.]. |
| b. ♂ juv. sk. | Nu, Port de France. | J. Macgillivray, Esq. [C.]. (Type of <i>M. perspicillata</i> .) |
| c. ♀ ad. sk. | New Caledonia. | Purchased. |
| d. ♂ ad. sk. | Loyalty Islands. | Sir G. Grey [P.]. (Type of <i>M. viridinitens</i> .) |

8. *Myiagra melanura*.

Myiagra melanura, Gray, *Cat. B. Trop. Isl. Pacific Ocean*, p. 18; *id. Hand-l. B.* i. p. 328, no. 4923; *id. in Brenchley's Cruise of the 'Caracoa'*, pl. 8, fig. 1; *Tristr. Ibis*, 1876, p. 262.

Adult male (type of species). Similar to *M. caledonica*, but with the tail entirely black, without the white edgings at the tip of the inner web. Total length 5.5 inches, culmen 0.65, wing 3, tail 2.55, tarsus 0.7.

Obs. The character by which Mr. Gray separated *M. melanura* from *M. caledonica* was the absence of white edging to the outer tail-feather. This is true of the Erromango bird, and of the one from Vanua Lava; but in the specimen from Aneiteum the outer

feather is *narrowly* edged with white, as in the Loyalty-Island bird, though not to the same extent. The amount of white on the tail evidently varies, and does not commend itself to me as a strong specific character.

Adult female. General colour above light brown, somewhat shaded with ashy, especially on the rump and upper tail-coverts; wing-coverts like the back, the edge of the wing white, as well as the tips to the greater coverts; quills dark brown, edged with lighter brown like the back; tail light brown, the outer feathers ashy white at the tip of the inner webs, increasing in extent towards the outermost feather, which is edged with ashy white along the outer web also; head darker than the back and distinctly shaded with slaty grey, as also the sides of the face; feathers in front of the eye lighter grey; round the eye a ring of whitish plumes; cheeks, throat, and breast light orange-buff, becoming gradually paler towards the abdomen, which is buffy white, the under tail-coverts whiter; under wing-coverts buffy white, the axillaries whiter; quills dusky brown below, edged with white along the inner web.

Hab. New Hebrides and Banks's group.

- | | | |
|--------------|----------------------------|---|
| a. ♂ ad. sk. | Erromango, New Hebrides. | J. Macgillivray, Esq. [C.]. (Type of species.) |
| b. ♀ ad. sk. | Anciteum, New Hebrides. | J. Macgillivray, Esq. [C.]. |
| c. ♂ ad. sk. | Anciteum. | Purchased. |
| d. ♂ ad. sk. | Vanua Lava, Banks's group, | J. Brenchley, Esq. [P.]. |
| | August 1865. | |

9. *Myiagra pluto*.

Myiagra pluto, *Finsch*, *P. Z. S.* 1875, p. 644; *id. Journ. Mus. Godeffr.* Heft xii. p. 29.

Adult male. General colour above and below dark slate-colour, somewhat glossed with steel-grey on the back and breast; wing-coverts like back, quills blackish; upper tail-coverts blacker than the back, glossed with steel-green; tail black, glossed with greenish on the edges of the feathers; crown of head brighter than the rest of the upper surface, glossy steel-green; under surface of quills edged with ashy brown along the inner webs. Total length 6·8 inches, culmen 0·65, wing 3·25, tail 3·05, tarsus 0·75.

Adult female. Similar to the male, but having the chin and throat dark brown. (*Finsch*.)

Hab. Island of Ponapé, Seniavin group.

- | | | |
|--------------|----------------------------------|-------------------|
| a. ♂ ad. sk. | Ponapé Island (<i>Kubary</i>). | Godeffroy Museum. |
|--------------|----------------------------------|-------------------|

10. *Myiagra atra*.

Myiagra atra, *Meyer*, *Sitz. k. Akad. Wien*, lxi. p. 498; *Sclater*, *Ibis*, 1874, p. 418.

Adult male (Kordo, Misori, *Beccari*). General colour above and below blue-black, rather lighter below; wings and tail black, the

feathers edged with blue-black like the back; quills ashy black below, greyer along the edge of the inner web. Total length 5·2 inches, culmen 0·55, wing 2·85, tail 2·4, tarsus 0·65. (*Mus. Genov.*)

Adult female (Kordo, *Beccari*). Different from the male. General colour above ashy grey, the head inclining to bluish grey; wing-coverts like the back, the greater series and the quills brown, edged with lighter ashy brown; tail-feathers brown, margined with ashy brown; lores, sides of face, and ear-coverts dusky grey, darker in front of and below the eye, the hinder part of the eyelid somewhat whitish; cheeks white; under surface of body greyish white, slightly mottled on the breast with darker subterminal marks of ashy; abdomen and under tail-coverts pure white; thighs ashy brown; under wing-coverts ashy brown, edged with white, the axillaries white, with dusky-brown bases. Total length 5·2 inches, culmen 0·55, wing 2·6, tail 2·3, tarsus 0·65. (*Mus. Genov.*).

Hab. Island of Misori in the Bay of Geelvink.

11. *Myiagra latirostris*.

Myiagra latirostris, *Gould, P. Z. S.* 1840, p. 172; *Gould, B. Austr. folio*, ii. pl. 92; *Reich. Voy. Neuhol.* p. 223, no. 569; *Bp. Consp.* i. p. 321; *Gray, P. Z. S.* 1858, p. 176; *Gould, Handb. B. Austr.* i. p. 256; *Finsch, Neu-Guinea*, p. 170; *Gray, Hand-l. B.* i. p. 328, no. 4918; *Sharpe, Journ. Linn. Soc.* xiii. p. 498.

Adult male. General colour above leaden grey, darker and more glossy on the head; lesser and median coverts like the back; the greater coverts, primary-coverts, and quills dusky brown, externally edged with leaden grey like back, rather more hoary on the secondaries; tail-feathers dusky brown, externally leaden grey; sides of face leaden grey, not so glossy as the crown; eyelid whitish; feathers in front of and below the eye, lores, and base of forehead light ashy grey; cheeks, throat, and chest pale orange-rufous; remainder of under surface white, tinged with orange on the sides of the breast; thighs white, with dusky bases; under wing-coverts and axillaries white; quills ashy brown below, whitish along the inner webs; "bill black; feet black; iris blackish brown" (*Gould*). Total length 6·5 inches, culmen 0·6, wing 2·85, tail 2·75, tarsus 0·7.

Adult female. Different from the male in being much paler everywhere; the back ashy grey, the head only with greenish gloss; wing-coverts like the back; quills brown, with ashy-brown margins; tail-feathers blackish, externally ashy grey, the two outer feathers paler brown, the outermost edged along the outer web with dull whitish, as well as the tip of the inner web; sides of face light ashy grey, the feathers in front of the eye and at base of forehead hoary whitish; rest of under surface as in the male, but very much paler orange-rufous on the throat and chest. Total length 6·4 inches, culmen 0·6, wing 2·9, tail 2·8, tarsus 0·75.

Obs. Following the identifications of Mr. Gray and Mr. Wallace, I

keep the Aru-Islands *Myiagra* as identical with the North-Australian *M. latirostris*, but the specimens do not agree very well with Gould's figure. The Australian examples in the Museum are females in such worn plumage as to be useless for purposes of comparison.

Hab. Northern Australia, Aru Islands, S.E. New Guinea.

| | | |
|-------------------|--|---------------------------|
| a. ♀ ad. sk. | Port Essington. | Dr. Sibbald [P.]. |
| b. ♀ ad. sk. | Quail-Island Mangroves. N.W. Australia. | J. R. Elsey, Esq. [P.]. |
| c, d. ♂ ♀ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. |
| e. ♂ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. |

12. *Myiagra rufigula*.

Myiagra rufigula, Wallace, P. Z. S. 1863, pp. 485, 491; Gray, *Hand-l.* B. i. p. 328, no. 4919.

Adult male (type of species). General colour above leaden grey, with a greenish gloss; wing-coverts like the back; quills dusky blackish, externally edged with grey; tail blackish, slightly shaded with greenish on the edges of the feathers, the outermost one narrowly edged with white at the tip and also along the outer web; sides of face leaden grey, like the head; eyelid in front white; a narrow frontal line and feathers in front of the eye conspicuously lighter ashy grey; cheeks, throat, and chest rich orange-chestnut, extending upon the sides of the breast; rest of under surface of body and under tail-coverts pure white, the flanks washed with orange; thighs white, with dusky bases; under wing-coverts and axillaries white, faintly washed with orange-buff; quills ashy brown below, edged with white along the edge of the inner web. Total length 5.9 inches, culmen 0.6, wing 2.75, tail 2.5, tarsus 0.7.

Adult female. Different from the male; much lighter grey above, the head uniform with the back and only slightly glossed with steel-green; lesser and median coverts like the back; greater series dusky brown, narrowly tipped with white; quills dusky brown, edged with ashy; tail blackish, obsoletely tipped with white, more plainly on the penultimate feather, the outermost paler brown, edged with white along the outer web and at the tip of the inner web; sides of face like the head, the feathers in front of the eye and at the base of the forehead hoary grey; cheeks, throat, and chest deep orange-rufous, paler on the throat; rest of under surface white, slightly shaded with orange-buff on the flanks and on the wing-coverts. Total length 6 inches, culmen 0.6, wing 2.6, tail 2.5, tarsus 0.65.

Hab. Timor group of islands.

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|-------------------|---------------|---|
| a. ♂ ad. sk. | Semao Island. | A. R. Wallace, Esq. [C.]. (Type of species.) |
| b, c. ♂ ♀ ad. sk. | Timor. | A. R. Wallace, Esq. [C.]. |
| d, e. ♂ ad. sk. | E. Timor. | A. R. Wallace, Esq. [C.]. |

13. *Myiagra oceanica*.

Platyrhynche océanien, *Hombr. et Jacq. Voy. Pôle Sud*, Atlas, pl. 12 bis, figs. 1, 2.

Myiagra oceanica, *Jacq. et Pucher. Voy. Pôle Sud*, texte, iii. p. 77; *Gray, Cat. Birds Trop. Isl. Pacific Ocean*, p. 18; *id. Hand-l. B.* i. p. 328, no. 4929.

Adult female. Blackish on the upper part of the head and neck, as well as on the back; the rufous colour of the fore neck and thorax very nearly obsolete; abdomen white; quills and upper wing-coverts like the back; lower wing-coverts white, spotted with black; middle tail-feathers like the wing, but the lateral ones rather of an earthy brown; iris buff; bill and feet greyish brown. Total length 6·5 inches, bill 0·55, tail 2·45, tarsus 0·8. (*Pucheran*.)

Hab. Island of Hogoleu, Caroline group.

14. *Myiagra erythrops*.

Myiagra erythrops, *Hartl. & Finsch, P. Z. S.* 1868, pp. 6, 117, et 1872, p. 97; *Finsch, Journ. Mus. Godeffr.* Heft viii. p. 20.

Adult male. General colour above light brown, more ashy on the rump and upper tail-coverts; wing-coverts like the back; greater series and quills brown, obscurely edged with rufous-brown, the inner secondaries narrowly margined with ashy whitish; tail light ashy brown, with a narrow edging of white to the tips of the three outermost feathers; head obscure slaty grey; forehead and lores orange-rufous, shading gradually off on the crown; ear-coverts slaty grey; feathers round the eye, cheeks, and under surface of body orange-rufous or bay, deeper on the sides of the chest; lower abdomen and under tail-coverts whitish; thighs dusky; under wing-coverts whitish, with dusky bases, and slightly washed with rufous; "bill black" (*Tetens*); "bill clear horn-colour, with black tip" (*Kubary*); "legs black; iris black" (*Tetens*). Total length 5·2 inches, culmen 0·6, wing 2·55, tail 2, tarsus 0·8.

Adult female. Similar to the male. Total length 5 inches, culmen 0·6, wing 2·65, tail 2·05, tarsus 0·8.

Hab. Pelew Islands.

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| <i>a, b.</i> ♂ ♀ ad. sk. | Pelew Islands (<i>Kubary</i>). | Godeffroy Museum. |
| <i>c, d.</i> Ad. sk. | Pelew Islands. | Mr. Cohen [C.]. |

15. *Myiagra azureicapilla*.

Myiagra azureocapilla, *Layard, Ibis*, 1875, p. 434, et 1876, pp. 150, 392; *Rowley, Orn. Misc.* i. pl. xxxv.

Myiagra ceruleocapilla (lapsu), *Sclater & Salvin, Ibis*, 1877, p. 122.

Adult male. General colour above dull slaty blue; wing-coverts and quills black, edged with bluish, like the back; tail black, with greyish edges to the feathers; head light azure-blue, forming a cap;

a narrow frontal line, lores, feathers⁶ above and below the eye, and sides of head black, the latter with a slaty gloss; a broad band of azure-blue from the angle of the mouth and occupying the ear-coverts; cheeks and entire throat deep maroon, paler on the chin, the feathers of the fore neck slightly tipped with slaty blue; rest of under surface white, the sides of the upper breast slaty blue, as also the under wing-coverts; axillaries blackish, tipped with white; quills blackish below, edged with brown along the inner web; "bill orange; legs brown; iris brown" (*Layard*). Total length 6·1 inches, culmen 0·6, wing 3·2, tail 2·9, tarsus 0·8.

Adult female. Different from the male. Above chocolate-brown; wings blackish brown, the coverts broadly tipped with rusty; quills edged with rusty brown, the innermost secondaries broadly edged with rusty; tail-feathers blackish, the three outer ones tipped with dull white, increasing in extent towards the outermost; head brown, the sides of the crown and nape somewhat shaded with slate-colour; feathers in front of the eye and eyelid dull white; sides of face below the eye slaty grey, with another broad streak of white from below the fore part of the eye and occupying the ear-coverts; cheeks, throat, and fore neck maroon-brown, paler on the chin; rest of under surface white, the sides rufous-brown; thighs dark slaty; sides of upper breast brown; "upper mandible brown, lower one orange; legs brown; iris brown" (*Layard*). Total length 5·8 inches, culmen 0·6, wing 3·05, tail 2·75, tarsus 0·85.

Hab. Fiji Islands: Taviuni.

a, b. ♂ ♀ ad. sk. Ngila, Taviuni, Fiji, E. L. Layard, Esq. [C.].
August 1875.

16. *Myiagra castaneigularis*.

Myiagra castaneigularis, *Layard*, *Ibis*, 1876, pp. 389, 392.

Adult male. General colour above dark bluish grey, the least wing-coverts like the back; greater coverts and quills blackish, edged with bluish grey, like the back; tail blackish, with slight grey margins to the feathers, which are slightly tipped with white, increasing in extent towards the outer ones, which have very broad white ends; crown of head silvery azure, forming a cap; lores, feathers above the eye, and sides of crown greyish black, extending round the back of the nape in a broad though indistinct band; a band of feathers from the angle of the mouth and ear-coverts azure-blue; cheeks and entire throat deep chestnut; rest of under surface, from the fore neck downwards, pure white, the flanks mixed with dusky grey, and the sides of the breast slaty blue; under wing-coverts and axillaries white; quills dusky brown, lighter brown along the edge of the inner web. Total length 5 inches, culmen 0·6, wing 2·95, tail 2·7, tarsus 0·75.

Adult female. Different from the male. Above dark brown, the least wing-coverts like the back; median and greater coverts darker brown externally, edged with the same brown as the back, and

tipped with reddish ochre; quills dark brown, externally edged with brown, like the back; upper tail-coverts and tail blackish brown, slightly margined with lighter brown and tipped with white, which increases in extent towards the outermost; head and nape dull ashy black, forming a cap; lores whitish; sides of face ashy blackish, mottled with rufous spots on the ear-coverts; cheeks and throat rufous-chestnut; rest of under surface white, the sides of body washed with rufous-ochre; the sides of the upper breast greyish brown, washed with chestnut-red; under wing-coverts and axillaries white, with dusky bases; quills light dusky brown, edged with buffy white along the inner webs. Total length 5·2 inches, culmen 0·6, wing 2·8, tail 2·5, tarsus 0·8.

Hab. Viti Levu, Fiji Islands.

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| <i>a, b.</i> ♂ ♀ ad. sk. | Interior of Viti Levu (<i>Kleinschmidt</i>). | Museum Godeffroy. |
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17. *Myiagra galeata*.

Myiagra galeata, *Gray*, *P. Z. S.* 1860. p. 352; *Wallace*, *P. Z. S.* 1863, p. 29; *Finsch*, *Neu-Guinea*, p. 170; *Gray*, *Hand-l. B.* i. p. 328, no. 4920; *Salvad. Ann. Mus. Civic. Genov.* viii. p. 377.

Adult female (type of species). General colour above slaty blue, with a strong steel-greenish lustre; the wing-coverts like the back; quills brown, externally slaty grey; tail slaty blue, more ashy brown on the inner webs; crown and nape and sides of face glossy steel-black; cheeks and entire under surface of body pure white, including the under wing-coverts and axillaries; thighs dusky, with whitish edgings; quills dusky brown below, edged with lighter brown along the inner web. Total length 5·6 inches, culmen 0·6, wing 2·6, tail 2·1, tarsus 0·6.

Adult male. Similar to the female. Total length 5·2 inches, wing 2·6, tail 2·1, tarsus 0·6.

Young female. General colour above ashy brown, the head dull slaty blue; wing-coverts like the back, the quills dark brown, the secondaries externally edged with whity brown; tail light brown, shaded with ashy grey on the centre feathers; in front of the eye a triangular patch of dull white; eyelid buffy white; sides of face and ear-coverts slaty grey; cheeks and under surface of body pale orange-rufous, fading into reddish buff on the abdomen and under tail-coverts; under wing-coverts buffy whitish. Total length 5 inches, culmen 0·6, wing 2·45, tail 2·1, tarsus 0·55.

Obs. In this species the sexes of the adults seem to be alike. Several females, examined by Mr. Wallace in Batchian and Ceram at different times, are exactly like the adult males.

Hab. Batchian, Gilolo, Morty Island, Ternate, Ceram, Bouru.

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| <i>a.</i> ♀ ad. sk. | Batchian. | A. R. Wallace, Esq. [C.]. (Type of species.) |
| <i>b.</i> ♀ ad. sk. | Batchian. | A. R. Wallace, Esq. [C.]. |
| <i>c.</i> Ad. sk. | Gilolo. | A. R. Wallace, Esq. [C.]. |

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| <i>d.</i> ♂ ad.; <i>e.</i> ♀ juv. sk. | Morty Island. | A. R. Wallace, Esq. [C.]. |
| <i>f, g.</i> ♂ ♀ ad. sk. | N. Ceram. | A. R. Wallace, Esq. [C.]. |
| <i>h, i.</i> Juv. sk. | N. Ceram. | A. R. Wallace, Esq. [C.]. |
| <i>k, l.</i> ♀ juv. sk. | Bouru. | A. R. Wallace, Esq. [C.]. |

18. *Myiagra goramensis*.

Adult male. Similar to *M. galeata*, but considerably larger, and having the under mandible yellow, not black. Total length 6 inches, culmen 0·6, wing 2·9, tail 2·4, tarsus 0·65.

Hab. Island of Goram, Moluccas.

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| <i>a.</i> ♂ ad. sk. | Goram. | A. R. Wallace, Esq. [C.]. |
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54. PSEUDOBIAS.

Pseudobias, *Sharpe, Ibis*, 1870, p. 498 Type. *P. wardi*.



Bill of *Pseudobias wardi*.

Range. Confined to Madagascar.

1. *Pseudobias wardi*.

Pseudobias wardi, *Sharpe, Ibis*, 1870, p. 498, pl. 15; *id. P. Z. S.* 1871, p. 318; *Hartl. Vög. Madag.* p. 172.

Pseudobiastes wardi, *Sharpe, Cat. Afr. B.* p. 43 (*err.*).

Adult (type of species). General colour above glossy black, having a slight shade of green in some lights; the outermost greater coverts spotted with white at the tip, the innermost entirely white; the secondaries also broadly edged with white, forming a longitudinal white alar bar; tail square, black, white at the base of the outer webs; throat, sides of the neck, abdomen, under wing- and tail-coverts silky white; upper part of the breast glossy black, verging into greyish black on the flanks; bill and feet black. Total length 6 inches, culmen 0·55, wing 2·9, tail 2·4, tarsus 0·55.

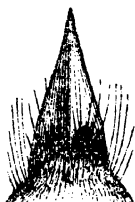
Hab. Madagascar.

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| <i>a.</i> Ad. sk. | Madagascar (<i>A. Crossley</i>). | R. B. Sharpe, Esq. (Type of species.) |
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55. MEGABIAS.

Type.

- Megabias, *J. & E. Verr. Rev. et Mag. de Zool.* 1855,
p. 348. *M. flammulatus.*
Myiagroides, *Reichenow, J. f. O.* 1874, p. 102 *M. flammulatus.*

Bill of *Megabias flammulatus*.

Range. Confined to Western Africa.

1. *Megabias flammulatus*.

Megabias flammulata, *J. & E. Verr. Rev. et Mag. de Zool.* 1855,
p. 348; *Hartl. Orn. W.-Afr.* p. 92; *Shelley and Buckley, Ibis*, 1872,
p. 292.

Megabias bicolor, *Elliot, Ibis*, 1859, p. 394; *Hartl. J. f. O.* 1861, p. 168;
Reichen. J. f. O. 1875, p. 25.

Smithornis tricolor (lapse), *Gray, Hand-l. B.* i. p. 324, no. 4868.

Myiagroides conspicuus, *Reichen. J. f. O.* 1874, p. 102.

Adult male. Above glossy greenish black, darker on the head, with a steel-blue gloss; wings black, margined with glossy green on the edges of all the coverts and quills; rump and upper tail-coverts pure white, the feathers dusky at base; longer upper tail-coverts and tail-feathers black, glossed with green on the edges of the feathers; nasal plumes, lores, feathers round the eye, and ear-coverts steel-black; cheeks and entire under surface of body pure white; under wing-coverts black, edged with greenish; "bill black; feet violet; iris dark reddish brown" (*Reichenow*); "iris red; tarsi and feet pink" (*Shelley and Buckley*). Total length 6.1 inches, culmen 0.8, wing 3.45, tail 2.55, tarsus 0.6.

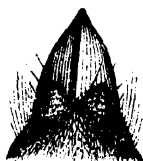
Adult female (type of species). General colour above bright chestnut, the rump somewhat mottled with subterminal white markings, the bases of all the feathers dusky; head and nape ashy brown; wing-coverts chestnut, the least series browner; quills dark brown, externally edged with chestnut, broader on the secondaries, the innermost of which are almost entirely of the latter colour, with dark-brown centres; tail uniform chestnut; ear-coverts ashy brown, with distinct white shaft-streaks; cheeks and under surface of body white, mottled all over with dusky-brown edges to the feathers, producing a striped appearance; vent and under tail-coverts light tawny; thighs whitish, washed with tawny; under wing-coverts and axillaries deep chestnut; lower surface of quills brown, narrowly edged with rufous along the inner web. Total length 7.2 inches, culmen 0.75, wing 3.55, tail 2.6, tarsus 0.65.

Hab. West Africa: Gaboon to the Gold Coast.

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|------------------|------------------------------------|---|
| a. [♀] ad. sk. | Gaboon. | M. Verreaux. (Type of species.) |
| b. ♂ ad. sk. | Gaboon. | M. Verreaux. (Type of <i>M. bicolor</i> .) |
| c. [♀] ad. sk. | Fantee (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. |

56. **SMITHORNIS.**

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| Smithornis, <i>Bp. Consp.</i> i. p. 322 (1850) | Type. S. capensis. |
| Phrynorhamphus, <i>Kaup, P. Z. S.</i> 1851, p. 52. | S. capensis. |

Bill of *Smithornis capensis*.

Range. Confined to Africa.

Key to the Species.

- a. Larger: sides of upper breast white, with broad black streaks; wing-coverts black, with white tips. *capensis*, p. 388.
- b. Smaller: sides of upper breast orange-chestnut; upper wing-coverts olive-brown, with sandy margins. *rufilateralis*, p. 389.

1. **Smithornis capensis.**

Platyrhynchus capensis, *Smith, Ill. Zool. S. Afr.* pl. 27; *Layard, B. S. Afr.* p. 142.

Smithornis capensis, *Bp. Consp.* i. p. 322; *Gray, Hand-l. B. i.* p. 324, no. 4866.

Phrynorhamphus capensis, *Kaup, P. Z. S.* 1851, p. 52; *Gurney, Ibis*, 1862, p. 30.

Adult female. Crown of head and nape black, the forehead slightly streaked with white; upper surface of body generally olive-brown, streaked with black, the longitudinal centres to the feathers being black; in the centre of the back a patch of white caused by the bases of the feathers being of this colour; wing-coverts olive-brown, with blackish centres, the feathers broadly edged with sandy buff; quills brown with sandy edges; tail brown, with paler tips and pale-brown edges; lores pure white, the shafts blackish; ear-coverts dark brown, with silvery-white shafts; throat white, with a broad moustachial streak of dusky black on each side; rest of under surface buffy white, broadly streaked with blackish; the abdomen and under tail-coverts pure white; under wing-coverts and axillaries buffy white, the outermost of the greater coverts blackish; under surface of the quills greyish brown, the primaries white along

their inner webs, the secondaries buff; "upper mandible nearly black, the under one pale; tarsi and feet pale; iris dark umber-brown" (*T. Ayres*). Total length 5·4 inches, culmen 0·65, wing 2·9, tail 2·2, tarsus 0·7.

Obs. Sir Andrew Smith in his description mentions the male as having a black head, while the female has a slaty-grey crown with brown stripes. The specimen described above shows that the adult female has the head black; and the grey-headed bird is therefore, in all probability, immature.

Hab. South-eastern Africa.

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| <i>a.</i> Ad. sk. | Natal. | |
| <i>b.</i> ♀ ad. sk. | Natal (<i>T. Ayres</i>). | J. H. Garney, Esq. [P.]. |

2. *Smithornis ruflateralis*.

Smithornis ruflateralis, *Gray*, *P. Z. S.* 1864, p. 143, pl. 16; *id.* *Hand-l. B.* i. p. 325, no. 4867; *Sharpe*, *Cat. Afr. B.* p. 43; *id.* *Ibis*, 1872, p. 70; *Ussher*, *Ibis*, 1874, p. 60.

Adult. Head and nape, as well as the feathers round the eye and the ear-coverts, black; round the hind neck a collar of rich orange-chestnut; mantle and scapulars olive-brown, washed slightly with orange; centre of the back black, mottled with white, all the feathers being white with broad black tips; least wing-coverts olive-brown, like the mantle; rest of the wing-coverts black, all tipped with white spots; quills dark brown; upper tail-coverts olive-brown; tail-feathers blackish, with paler tips; lores white; cheeks white, streaked with black on the hinder part; throat pure white, the chin slightly spotted with black, of which there is a distinct moustachial streak; rest of under surface of body white, streaked with black, the abdomen and under tail-coverts unspotted; on each side of the upper breast a broad crescentic mark of bright orange-chestnut; under wing-coverts and axillaries white, the outermost of the greater series black, forming a spot; lower surface of quills dark brown, the primaries white towards their bases; bill black, the under mandible yellow. Total length 4·5 inches, culmen 0·6, wing 2·35, tail 1·75, tarsus 0·55.

Two specimens want the black head, which is olive-brown like the back, with dark brown stripes; on the back the black margins are less broad, and the white shows more plainly. These are probably young birds.

Hab. Confined to the Gold Coast, West Africa.

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| <i>a.</i> Ad. sk. | Gold Coast. | John Gould, Esq. (Type of species.) |
| <i>b.</i> Ad. sk. | Gold Coast. | John Gould, Esq. |
| <i>c.</i> Ad. sk. | Fantee (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. |
| <i>d.</i> Ad. sk. | Denkera. | R. B. Sharpe, Esq. |
| <i>e, f.</i> Juv. sk. | Fantee (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. |

57. **MACHÆRORHYNCHUS.**

Type.

Machæirhynchus, *Gould, P. Z. S.* 1850, p. 277 *M. flaviventer*.*Machæirhynchus*, *Schl. N. T. D.* iv. p. 43.*Macheirhamphus*, *Schl. tom. cit.* p. 58 (*lapsu, nec Westerm.*).*Cl. Salvad. Atti R. Accad. Torino*, x. p. 369 (1875).Bill of *Machærorhynchus flaviventer*.*Range.* Northern Australia, New Guinea and adjacent islands.*Key to the Species.*

- a.* With no patch of black on the breast, which is entirely yellow; chin white.
 - a'.* Ear-coverts black; forehead and eyebrow yellow *flaviventer*, p. 390.
 - b'.* Ear-coverts yellow.
 - a''.* Forehead and eyebrow yellow *xanthogenys*, p. 391.
 - b''.* Forehead and eyebrow white *albifrons*, p. 392.
- b.* With a large black patch on the breast; chin yellow, like the throat *nigripectus*, p. 392.

1. ***Machærorhynchus flaviventer.****Machæirhynchus flaviventer*, *Gould, P. Z. S.* 1850, p. 277, pl. 33;*id. B. Austr. Suppl.* p. 21, pl. 11; *id. Handb. B. Austr.* i. p. 257;*Ramsay, P. Z. S.* 1868, p. 384; *Sunder. Av. Meth. Tent.* p. 24;*Ramsay, Proc. Linn. Soc. N. S. W.* ii. p. 182.*Machæirhynchus flaviventris*, *Gray, P. Z. S.* 1858, p. 192; *Finsch, Neu-Guinea*, p. 168.*Myiagra flaviventer*, *Gray, Hand-l. B.* i. p. 329, no. 4937.*Macheirhynchus flaviventer*, *Schl. N. T. D.* iv. p. 43.*Machærorhynchus flaviventer*, *Salvad. Atti R. Accad. Torino*, x. p. 373.

Adult. General colour above olive-green, yellow on the rump; upper tail-coverts and tail black, the centre feathers obsoletely, the rest more broadly tipped with white, increasing in extent on the outer ones, which are also white along the outer web; wings black, the median and greater series of coverts broadly tipped with white, the primary-quills narrowly edged with white, the secondaries with yellow, the inner ones more broadly again with white: forehead and a broad eyebrow, including the upper edge of the eyelid, bright yellow; feathers in front of and below the eye, including the lower edge of the eyelid, black: chin, fore part of cheeks, and upper part of throat white; hinder part of cheeks and entire under surface of body bright yellow, the flanks slightly greener: thighs black; under

wing-coverts white, with a patch of black near the outer edge of the greater series: quills blackish, white along the inner margin; bill black; feet blackish blue. Total length 4·6 inches, culmen 0·6, wing 2·25, tail 2, tarsus 0·55.

Young. General colour above dull yellowish green, the head rather more dingy; wings brown, with white tips to the median and greater wing-coverts; quills edged with yellowish, the secondaries with white; tail-feathers black, edged with olive-yellow, and minutely tipped with white, increasing in extent towards the outermost as in the adult; feathers in front of eye and ear-coverts dull brown; lores and eyebrow, as well as the forehead, dull golden yellow; cheeks and throat white; rest of under surface white, washed with yellow, and deepening into bright yellow on the vent and under tail-coverts, the chest mottled with circular markings of greenish ashy; under wing-coverts and inner margins of quills white.

Hab. North Australia.

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|-----------------------------------|-----------------|--------------------------------------|
| <i>a.</i> Ad. st. | N.E. Australia. | J. Gould, Esq. (Type of species.) |
| <i>b.</i> Ad.; <i>c.</i> Juv. sk. | Cape York. | Mr. Cockerell [C.]. |
| <i>d.</i> Ad. sk. | Cape York. | Mr. Cockerell [C.]. |

2. *Machærorhynchus xanthogenys.*

Machærorhynchus xanthogenys, *Gray*, *P. Z. S.* 1858, pp. 176, 192;
id. *Cat. B. New Guinea*, pp. 27, 57; *id.* *P. Z. S.* 1861, p. 434;
Finsch, New-Guinea, p. 168.

Myiagra xanthogenys, *Rosenb. J. f. O.* 1854, p. 119; *Gray, Hand-l.*
B. i. p. 329, no. 4938.

Machærorhynchus xanthogenys, *Schl. N. T. II* iv. p. 43.

Machærorhynchus xanthogenys, *Salvad. Atti R. Accad. Torino*, x.
p. 375.

Adult male (type of species). General colour above black, with slight remains of yellowish or olive on the sides of the rump and mantle; wings black, the median and greater coverts broadly tipped with white, the quills narrowly edged with white, the secondaries with yellow, the innermost more broadly margined with white; tail-feathers black, minutely tipped with white, increasing in extent towards the outermost, which are also white along the outer edge; forehead, eyebrow, sides of face, sides of neck, and under surface of body bright yellow; chin and upper throat white; sides of body slightly washed with greenish; thighs white; under wing-coverts white, with a black spot near the outer edge of the greater series; quills blackish below, edged with white on the inner webs. Total length 5·2 inches, culmen 0·6, wing 2·35, tail 1·95, tarsus 0·5.

Young female. Olive-yellow above, the head darker; wings brown, the coverts and quills margined with yellow or yellowish white; tail-feathers brown, edged with yellow, the outermost edged and tipped with white; forehead, eyebrow, and sides of face dingy yellow, the upper edge of the ear-coverts darker; cheeks and throat white; rest of under surface yellow, the breast and sides greenish;

the chest varied with dusky-greyish cross lines; under wing-coverts white, as also the inner edges to the quills. Total length 4·65 inches, wing 2·25, tail 1·85, tarsus 0·6. (*Mus. Civic. Genov.*)

Hab. Aru Islands.

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| <i>a.</i> ♂ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.] (Type of species.) |
| <i>b.</i> ♂ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.] |

3. *Machærorhynchus albifrons*.

Machærirhynchus albifrons, *Gray, P. Z. S.* 1861, pp. 429, 434, pl. 43. fig. 1; *Finsch, Neu-Guinea*, p. 168; *Gould, B. New Guinea*, part iv.

Myiagra albifrons, *Gray, Hand-l. B.* i. p. 329, no. 4939.

Macheirhynchus albifrons, *Schl. N. T. D.* iv. p. 43.

Machærorhynchus albifrons, *Salvad. Atti R. Accad. Torino*, x. p. 377.

Adult male (type of species). General colour above glossy black, the hind neck and lower back slightly washed with yellow, brighter on the rump; a narrow frontal line, feathers round the eye, an eyebrow, and upper edge of eyelid white; feathers in front of the eye and lower edge of eyelid black; anterior part of cheeks, chin, and upper throat white; remainder of cheeks, ear-coverts, sides of neck and breast bright yellow, whiter in the centre of the abdomen; thighs, axillaries, and under wing-coverts white; wings black, the greater and median coverts broadly tipped with pure white; quills also narrowly edged with white or yellowish, the inner secondaries more broadly; upper tail-coverts and tail-feathers black, tipped with white, increasing in extent towards the outermost, which is white also along the outer edge; bill and legs blackish. Total length 4·8 inches, culmen 0·6, wing 2·35, tail 1·95, tarsus 0·55.

Young. Olive-yellow above, the head dingier and more ashy; wings brown, the feathers edged with yellow instead of white; tail-feathers brown, edged with yellow, the outer feathers tipped with white, the outermost edged with white on the outer web, but not to the same extent as in the old bird; lores and eyebrow dull whitish brown; ear-coverts brighter yellow, more dingy on their upper edge; cheeks and entire throat dull white; rest of under surface of body yellow, washed with green on the flanks; the breast mottled with narrow cross lines of ashy grey.

Hab. Mysol, Waigiou, North-western New Guinea.

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|--------------------------------------|-------------|--|
| <i>a.</i> ♂ ad. sk. | Waigiou. | A. R. Wallace, Esq. [C.] (Type of species.) |
| <i>b, c.</i> Ad.; <i>d.</i> Juv. sk. | Mysol. | A. R. Wallace, Esq. [C.] |
| <i>e.</i> Juv. sk. | New Guinea. | Purchased. |

4. *Machærorhynchus nigripectus*.

Macheirhynchus nigripectus, *Schl. N. T. D.* iv. p. 43.

Macheirhamphus nigripectus, *Schl. t. c.* p. 58.

Machærorhynchus nigripectus, *Salvad. Atti R. Accad. Torino*, x. p. 378; *id. Ann. Mus. Civic. Genov.* vii. p. 768, x. p. 136.

Machæirhynchus nigripectus, Rowley, *P. Z. S.* 1875, p. 414; Gould, *B. New Guinea*, part iv.; Rowley in *Orn. Misc.* ii. p. 55, pl. 5, iii. p. 119, pl. 97.

Adult male. General colour above black, as also the wings; the median and greater coverts broadly tipped with white, the primaries very narrowly edged with an obsolete margin of whitish, the inner secondaries broadly edged with white; tail-feathers black, all but the centre ones minutely tipped with white, increasing in extent towards the outermost, which is also white along its outer web; forehead hoary grey, slightly tinged with yellow; feathers in front of eye black; eyebrow, sides of face, and entire under surface of body bright golden yellow; fore neck and chest black, forming a large patch; thighs black; under wing-coverts white, excepting those near the edge of the wing, which are black; quills blackish below, edged with white along the inner web; "bill, feet, and iris black" (*D'Albertis*). Total length 4.85 inches, culmen 0.55, wing 2.2, tail 2.2, tarsus 0.65. (*Mus. Civic. Genov.*)

Adult female. Differs from the male in being dark grey washed with olive-green above, instead of being black; upper tail-coverts and tail black, the latter marked with white, as in the male; wings also as in the male, but not so black; remainder of plumage as in the male, but not so bright yellow, the black breast-patch not so large, and the upper margin of the ear-coverts blackish, the flanks slightly washed with green. Total length 4.9 inches, wing 2.35, tail 2.2, tarsus 0.7. (*Mus. Civic. Genov.*)

Young. Resembling the old female, but being much paler yellow and having the breast-spot broken up into black mottling, the feathers being yellow tipped with black, or black with a subterminal bar of yellow.

Hab. North-western New Guinea.

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|--------------------------|--|-----------------------|
| <i>a.</i> ♀ juv. sk. | More, Arfak Mountains, Dec. 18, 1875. | M. Laglaize [C.]. |
| <i>b, c.</i> ♂ ♀ ad. sk. | Arfak Mountains. | Dr. A. B. Meyer [C.]. |

58. CRYPTOLOPHA.

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| | Type. |
| <i>Cryptolopha</i> , Swains. <i>An. in Menag.</i> ii. p. 259 (1837) | <i>C. burkii</i> . |
| <i>Culicipeta</i> , Blyth, <i>J. A. S. B.</i> xii. p. 968 (1843) | <i>C. burkii</i> . |
| <i>Abornis</i> , <i>Hodgs. in Gray's Zool. Misc.</i> p. 82 (1844, pt.) | Typo nullo. |
| <i>Pycnosphrys</i> , <i>Strickl. Contr. Orn.</i> 1849, p. 124 | <i>C. grammiceps</i> . |
| <i>Tickellia</i> , <i>Jerd. & Blyth, P. Z. S.</i> 1861, p. 199 | <i>C. hodgsoni</i> . |
| <i>Pindaius</i> , <i>Hartl. Ibis</i> , 1862, p. 152 | <i>C. ruficapilla</i> . |

Range. Southern and North-eastern Africa, ranging through India and the Burmese countries to Southern China, and thence through the Malayan peninsula to Java and Borneo.

Key to the Species.

- a.* Rump uniform with the lower back, not white or yellow, in strong contrast with the latter.
- a'.* Throat yellow, like the rest of the under surface.
- a'.* Head with a double band of black along each side of the crown.
- a''.* Head yellowish or green in the centre of the crown, with a broad lateral stripe on each side extending to the nape.
- a⁴.* Belly bright yellow.
- a⁵.* Two outer tail-feathers white for the greater part of the inner web; greater wing-coverts tipped with yellow, forming a bar across the wing; flanks yellow, like the breast *burkii*, p. 395.
- b⁵.* Tail uniform, or with no more than a tiny white spot at the tip of the inner web of the penultimate feather; no yellow wing-bar; flanks greener than the yellow breast *trivirgata*, p. 396.
- b⁴.* Belly greyish white *cantatrix*, p. 397.
- b'''.* Head grey in the centre of the crown, with a broad black band along each side of the latter, extending to the sides of the nape *affinis*, p. 398.
- b''.* Head uniform, with no pronounced dark lateral bars on the crown; outer tail-feathers white on inner web; under surface entirely yellow; a broad white eyebrow *xanthoschista*, p. 398.
- b'.* Throat yellow, contrasting with the breast and abdomen, which are white; a bright yellow eyebrow.
- c⁴.* Head grey; ear-coverts grey; inner web of outer tail-feathers white *schisticeps*, p. 400.
- d⁴.* Head rufous-brown; ear-coverts yellow; outer tail-feathers uniform, not white on the inner web *ruficapilla*, p. 400.
- c'.* Throat rufous-brown, like the rest of the under surface; upper surface a little duller brown. *umbrivirens*, p. 401.
- d⁴.* Throat white or greyish white, contrasting with the breast, which is bright yellow.
- c''.* No white on the inner web of the tail-feathers; no yellow bar across the wing.
- c'''.* Head and ear-coverts light brown, shading off gradually into the olive-brown of the back; back dull olive-brown *superciliaris*, p. 402.
- d'''.* Head and ear-coverts darker ash-colour, contrasting with the back, which is yellowish olive. *schwaneri*, p. 403.

- f''*. Outer tail-feathers white along the inner webs; head and hind neck ashy grey, as also the sides of the face; a yellow bar across the wing, formed by the tips of the greater wing-coverts *poliogenys*, p. 403.
- b*. Rump white or yellow, contrasting strongly with the rest of the upper surface; crown chestnut.
- c'*. With a double yellow wing-bar, formed of the tips to the median and greater coverts.
- g''*. Sides of body yellow; rump yellow; outer tail-feathers white on their inner webs *castaneiceps*, p. 404.
- h''*. Sides of body white, like the rest of the under surface; rump white; no white on outer tail-feathers *grammiceps*, p. 404.
- f*. With no yellow wing-bar.
- i''*. Throat white, the lower part with a black spot; chest yellow, rest of under surface white; no white on tail. } *albigularis*, p. 405.
- k''*. Throat and chest grey; rest of under surface yellow; outer tail-feathers with white inner webs. } *fulvifacies*, p. 406.
- *hodgsoni*, p. 406.

1. *Cryptolopha burkii*.

- Sylvia burkii*, *Burton, P. Z. S.* 1835, p. 153; *Gray, Hand-l. B.* i. p. 218, no. 3098.
- Cryptolopha auricapilla*, *Sicains. An. in Menag.* p. 343; *id. Classif. B.* ii. p. 260.
- Acanthiza?* *arrogans*, *Sunder. Phys. Scilsk. Land*, i. p. 62; *id. in Ann. N. H.* xviii. p. 252.
- Muscicapa bilineata*, *Less. Rev. Zool.* 1839, p. 104.
- Culiciveta burkii*, *Blyth, J. A. S. B.* xii. p. 968; *Cat. B. Mus. A. S. B.* p. 341; *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 67; *Bp. Consp.* i. p. 342; *Horsf. & Moore, Cat. B. Mus. F. I. Co.* i. p. 341; *Jerd. B. Ind.* ii. p. 199; *Blyth & Wald. B. Burm.* p. 107.
- Neornis strigiceps*, *Hodgs. Icon. ined., Passeres*, pl. 57, fig. 1 (*Hodgs.* no. 382*); *id. in Gray's Zool. Misc.* p. 82.
- Rhipidura auricapilla*, *Gray, Gen. B.* i. p. 259, et iii. *App.* p. 12.
- Rhipidura arrogans*, *Gray, Gen. B.* i. p. 259.

Adult. Above olive-green, with a yellowish tinge, becoming brighter on the rump and upper tail-coverts; wing-coverts exactly like the back, the greater series tipped with yellow, forming an indistinct bar across the wing; the quills ashy brown, with margins of yellowish green, less distinct on the secondaries; tail-feathers ashy brown, margined with yellowish green, the two outer pairs on each side for the most part white, ashy brown at the base of the inner web and along the outer web for its entire extent; centre of

* This figure represents a *Cryptolopha* with a grey crown, which would appear to be *C. affinis*, were it not for the yellow eyebrow, which can only be intended for *C. burkii*. It looks as if the slight grey shade, sometimes present on the latter's head, had been exaggerated.

crown yellowish green, on each side of which is a very broad band of black, slightly shaded with grey on the inner margin; round the eye a circle of bright yellow feathers; lores, eyebrow, and sides of face olive-yellow; cheeks and entire under surface of body bright yellow, including the under wing-coverts and the edge of the wing; inner lining of quills ashy brown, the inner web white along the edge from the base for nearly the entire length; bill dusky above, beneath amber; legs brownish yellow; iris dark. Total length 4 inches, culmen 0·5, wing 2·2, tail 1·85, tarsus 0·7.

Females or young birds have the colours duller, the upper surface being dusky greenish, as also the crown, the lateral black streaks being dusky blackish and very indistinct; under surface greenish yellow.

Hab. India.

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|-------------------------------------|-----------------------------|--------------------------------|
| <i>a, b.</i> Ad. sk. | India. | Purchased. |
| <i>c, d.</i> Ad. sk. | Between Simla and Mussoori. | Capt. Stackhouse Pinwill [P.]. |
| <i>e-h.</i> Ad.; <i>i.</i> Juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>k, l.</i> Ad. sk. | Behar. | B. H. Hodgson, Esq. [P.]. |
| <i>m.</i> Ad. sk. | Darjiling. | J. Fotheringham, Esq. [C.]. |
| <i>n.</i> Ad. sk. | Bootan. | Secretary of State for India |

2. *Cryptolopha trivirgata*.

Sylvia trivirgata, "Temm.," *Verreue MS.*, und^o

Phylloscopus trivirgatus, *Strickl. Contr. Orn.* 1849, p. 123, pl. 34. fig. 2.

Sylvia trivirgata, *Gray, Hand-l. B.* i. p. 217, no. 3087.

Callicipeta trivirgata, *Seebohm, Ibis*, 1876, p. 490.

Adult. General colour above yellowish green, rather brighter on the crown of the head, which has a broad black band running from the base of the forehead on each side to the sides of the nape; a distinct line of bright yellow from the base of the bill running above the eye, and forming a conspicuous eyebrow; in front of and behind the eye a blackish spot; sides of face yellow, with a dingy shade along the upper edge of the ear-coverts; entire under surface of body bright yellow, the sides of the body and flanks greenish yellow; under wing-coverts yellow; axillaries white, washed with yellow; wing-coverts above like the back, the greater series a little brighter yellow; quills dusky brown, with bright yellow edges; centre tail-feathers dull olive, the rest of the rectrices dusky brown, externally olive yellowish, the outer ones narrowly edged with white along the inner web; quills dusky brown below, white along the edge of the inner webs, shading off into yellow towards the tips. Total length 4·3 inches, culmen 0·5, wing 2·15, tail 1·6, tarsus 0·8.

Hab. Java.

| | | |
|---------------------|----------|---------------------------|
| <i>a.</i> ♀ ad. sk. | W. Java. | A. R. Wallace, Esq. [C.]. |
| <i>b.</i> Ad. sk. | W. Java. | A. R. Wallace, Esq. [C.]. |

3. *Cryptolopha cantatrix*.

Motacilla cantator, *Tickell, J. A. S. B.* ii. p. 576.

Culicipeta cantator, *Blyth, J. A. S. B.* xvi. p. 440; *Jerd. B. Ind.* ii. p. 200; *Seebohm, Ibis*, 1878, p. 490.

Rhipidura cantator, *Gray, Gen. B. App.* iii. p. 12.

Abrornis cantator, *Blyth, Cat. B. Mus. A. S. B.* p. 183; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 338.

Sylvia cantator, *Gray, Hand-l. B.* i. p. 217, no. 3086.

Abrornis (*Culicipeta*) *cantator*, *Ball, Str. F.* 1874, p. 415.

Abrornis chrysea, *Walden in Blyth's B. Burm.* p. 106*; *Hume, Str. F.* 1877, p. 56.

Adult. General colour above olive-greenish, a little more yellow on the rump and upper tail-coverts; wing-coverts a little more yellow than the back, the greater coverts edged and tipped with yellow, forming a bar across the wing; quills dusky brown, externally edged with bright yellow, inclining to greyish at the end of the primaries; tail-feathers light brown, externally edged with olive-yellow, the outer feathers edged with white towards the tip of the inner web; crown of head olive-yellow, with a broad lateral streak of black extending from the base of the bill to the sides of the nape; over the eye a distinct line of yellow, brighter than the crown and skirting the black coronet-stripe; feathers round the eye bright yellow; in front of the eye a dusky spot; sides of face bright yellow, shaded with dusky olive along the upper margin of the ear-coverts; cheeks, throat, and breast yellow, paler on the latter; rest of the under surface greyish white, clearer on the centre of the abdomen; thighs and under tail-coverts yellow; under wing-coverts yellow, as also the edge of the wings; axillaries white, washed with yellow; bill brown, the lower mandible yellowish white in skin; legs brown. Total length 3·7 inches, culmen 0·45, wing 2·25, tail 1·7, tarsus 0·65.

Hab. Nepal, Central India, Bengal, Assam.

α. Ad. sk. Assam. Secretary of State for India [P.].

* *CRYPTOLOPHA FULVIVENTER*.

Reguloides fulviventor, *Godwin-Austen, J. A. S. B.* 1874, p. 167 (*nec Hodys.*).

Above: centre of head light yellow-green, bounded on either side by broad dusky bands; nape pale greenish ash. Pure ash on back; upper tail-coverts grass-green, as well as the two centre tail-feathers and outer edge of all the others; the two outermost, as viewed from below, have a narrow pale-yellow edging on the outer web. Shoulder of wing ash-grey; coverts ash-brown, with a narrow white bar. Quills dusky brown, the secondaries well marked with grass-green. A pale yellow supercilium. Ear-coverts pale; chin very pale yellow; throat, breast, and abdomen pale pearly white; under tail-coverts bright yellow; bill above dark dark brown, below orange; legs and feet grey. Length about 3"·75, wing 2", tail 1"·4, tarsus 0"·70, bill from front 0"·4. (*Godwin-Austen.*)

Hab. Low country of the Dunsiri, Assam.

Lord Tweeddale, in the 'Birds of Burma,' suggests that this species, which is founded on a single carbolized specimen, may be the same as his *Abrornis chrysea*, but that the colours have undergone some change from the carbolization of the skin. This seems to be extremely probable.

4. *Cryptolopha affinis*.

- Abornis affinis*, "*Hodgs.*" (*nec* *Phyllopneuste affinis*, *Hodgs.*), *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 341; *Jerd. B. Ind.* ii. p. 204; *Gray, Cat. Hodgs. Coll. Nepal*, 1863, p. 33.
Sylvia affinis, *Gray, Hand-l. B.* i. p. 217, no. 3084.
Culicipeta tephrocephala, *Anders. P. Z. S.* 1871, p. 213; *Blyth & Wald. B. Burm.* p. 107; *Hume, Str. F.* 1874, p. 479; *Hume & Davison, Str. F.* 1878, p. 358; *Seebohm, Ibis*, 1878, p. 490.
Culicipeta burkii, *David, N. Arch. Mus.* vii. *Bull.* p. 5 (*nec* *Burton*).
Cryptolopha tephrocephala, *Swinh. P. Z. S.* 1871, p. 358; *David & Oustalet, Ois. Chine*, p. 272.
 ? *Abornis affinis*, *Prjev. in Rousley's Orn. Misc.* ii. p. 172; *David & Oustalet, Ois. Chine*, p. 273.

Adult (type of *C. tephrocephala*). Upper surface dull yellowish green, the rump and upper tail-coverts brighter yellow; head and nape ashy grey, with a blackish streak along each side of the crown; frontal plumes, as well as those above the eye, yellowish, a circle of feathers round the latter bright yellow; ear-coverts and sides of neck dull yellowish green, like the back; entire under surface of body bright yellow, including the under wing- and tail-coverts and thighs, the sides of the body inclining to greenish; wings and tail sepia-brown, externally washed with the same yellowish green as the back, the wing-coverts being uniform with the latter; the outermost tail-feathers white for the whole extent of the inner web; "upper mandible black, the lower one yellow; feet and claws yellowish grey; iris brownish red" (*David*); "irides dark brown; eyelids plumbeous; upper mandible dark horny brown, the edges pale reddish yellow; inside of mouth reddish fleshy; legs fuscous yellow; claws pinkish horny" (*Oates*). Total length 3·6 inches, culmen 0·5, wing 2·1, tail 1·8, tarsus 0·7. (*Mus. Calc.*)

Hab. Eastern Himalayas, extending into the Burmese countries and Western China.

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|-------------------|----------------------------|---------------------------|
| <i>a.</i> Ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>b.</i> Ad. sk. | Lower Pegu, Nov. 20, 1877. | R. B. Sharpe, Esq. [P.]. |
- (*M. Oates*).

5. *Cryptolopha xanthoschista*.

- Phyllopneuste xanthoschistos*, *Hodgs. Icon. ined., Passeres*, pl. 56 (*Hodgs.* no. 380); *id.* in *Gray's Zool. Misc.* p. 82; *Gray, Cat. Mamm. Sc. Nepal Coll. Hodgs. App.* p. 151 (*deser. orig.*).
Phylloscopus schisticeps (*nec* *Gray*), *Blyth, J. A. S. B.* xiv. p. 592.
Culicipeta schisticeps, *Blyth, J. A. S. B.* xvi. p. 441 (*nec* *Gray*).
Abornis xanthoschistus, *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 339; *Jerd. B. Ind.* ii. p. 202; *Gray, Cat. Mamm. Sc. Hodgs.* 1863, p. 32; *Blyth & Wald. B. Burm.* p. 106; *Hume, Lahore to Yark.* pl. 20. fig. 2; *id. Str. F.* 1873, p. 494.
Abornis, sp., *Adams, P. Z. S.* 1859, p. 182.
Abornis albosuperciliaris, "*Blyth*," *Jerd. B. Ind.* ii. p. 202; *Hume & Henders, Lahore to Yark.* pl. 20. fig. 1; *Hume, Str. F.* 1873, p. 493; *Brooks, Str. F.* 1875, p. 245.

Sylvia xanthoschistus, *Gray, Hand-l. B. i. p. 217*, no. 3075.

Sylvia albosuperciliaris, *Gray, t. c. p. 217*, no. 3089.

Abrornis jerdoni, *Brooks, Str. F. 1871*, p. 248; *id. Str. F. 1875*, p. 245; *Hume, t. c. p. 245*, note.

Adult. Crown of head and hind neck ashy grey, rather darker ashy on the sides of the crown; mantle and upper back also ashy grey, with a slight wash of yellow, the lower back, rump, and upper tail-coverts olive-yellow, with a white subterminal shade on the rump-feathers; wing-coverts olive-yellowish, like the lower back; greater coverts and quills dusky brown, externally olive-yellowish, the primaries margined with brighter yellow; tail-feathers ashy brown, edged narrowly with olive-yellow on the outer web and with white on the inner web, increasing in extent towards the two outermost, which are almost entirely white, excepting near the base and towards the end of the outer web; over the eye a long white streak from the base of the nostrils to the sides of the nape; round the eye a ring of white feathers, dusky in front and behind, where it adjoins the dusky spot in front of the eye and the upper margin of the ear-coverts; feathers below the eye and ear-coverts ashy whitish, browner along the upper edge of the latter; cheeks and entire under surface of body bright yellow, the flank-feathers long and silky, with a subterminal shade of white; under wing-coverts yellow, as well as the edge of the wing; axillaries white, slightly washed with yellow; quills ashy brown below, white along the edge of the inner web; bill horn-brown in skin, lower mandible yellowish. Total length 3·8 inches, culmen 0·4, wing 2·1, tail 1·7, tarsus 0·75.

Obs. The specimens of this bird from the North-western Himalayas are generally rather more ashy brown on the head, and are rather larger; in this state they are *Cryptolopha albosuperciliaris* of Indian authors. These birds can, however, be matched by some Nepalese examples. In the Eastern Himalayas the specimens have the head rather clearer blue-grey, and are smaller in dimensions (*Cryptolopha xanthoschista*, *Hodgs.*, and *C. jerdoni*, *Brooks*).

Hab. Himalaya Mountains.

| | | |
|----------------------|---|------------------------------------|
| <i>a, b.</i> Ad. sk. | India. | Secretary of State for India. |
| <i>c.</i> ♀ ad. sk. | Bijnor, near Hurdwar, Nov. 11, 1872 (<i>Capt. G. F. L. Marshall</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>d.</i> ♂ ad. sk. | Nynce Tal, June 30 (<i>G. F. L. M.</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>e. i.</i> Ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>k-o.</i> Ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>p.</i> Ad. sk. | Bootau. | Secretary of State for India [P.]. |
| <i>q.</i> Ad. sk. | Nazeerah, Upper Assam (<i>Dr. Reid</i>). | R. B. Sharpe, Esq. [P.]. |

6. *Cryptolopha schisticeps*.

Abornis schisticeps, *Hodgs. Icon. ined., Passeres*, pl. 57. fig. 6, pl. 58. fig. 2, pl. 64. fig. 1 (*Hodgs. no. 468*); *id. in Gray's Zool. Misc.* p. 82; *Horsf. & Moore, Cat. B. Mus. E.I. Co. i.* p. 339; *Jerd. B. Ind. ii.* p. 201; *Gray, Cat. Hodgs. Coll.* 1863, p. 32; *Seebohm, Ibis*, 1878, p. 490.

Regulus schisticeps, *Gray, Gen. B. i.* p. 175.

Culipeta schisticeps, *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 153 (*descr. orig.*).

Abornis melanops, *Jerd. & Blyth, P. Z. S.* 1861, p. 200.

Sylvia schisticeps, *Gray, Hand-l. B. i.* p. 217, no. 3076.

Adult. General colour above dull olive-yellow, rather lighter on the rump and upper tail-coverts, the rump-feathers subterminally white; wing-coverts like the back; quills dusky blackish, the primaries narrowly edged with brighter yellow, the secondaries more broadly washed with the latter colour; tail-feathers dusky brown, with olive-yellow edges, whitish on the edge of the inner web, increasing in extent towards the outermost feathers, which have the inner web entirely white; head and hind neck dark slaty grey, slightly washed with olive-yellow on the latter; forehead and a very broad eyebrow brilliant yellow; a narrow frontal line, lores, feathers in front of and below the eye black; ear-coverts and sides of neck slaty grey; cheeks and throat brilliant yellow; fore neck and chest rather paler yellow, the sides of the breast dull greenish; lower breast and abdomen white, the flank-feathers long and silky, white tipped with yellow; thighs and under tail-coverts yellow; under wing-coverts and edge of wing bright yellow; axillaries white, washed with yellow; quills ashy brown below, whitish along the edge of the inner web; "bill and feet horny" (*Jerdon*). Total length 3·5 inches, culmen 0·35, wing 1·75, tail 1·55, tarsus 0·6.

Young. Similar to the adult, but with the head dusky greenish, a little darker than the back, and the yellow eyebrow and throat not so bright.

Hab. Himalaya Mountains.

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|-----------------------|--------|---------------------------|
| <i>a.</i> Ad. st. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>b-f.</i> Ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>g, h.</i> Juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |

7. *Cryptolopha ruficapilla*.* (Plate XII. fig. 1.)

Pogonocichla ruficapilla, *Sunder. K. Vet.-Akad. Förh. Stockh.* 1850, p. 105.

Culicipeta ruficapilla, *Grill, Zool. Anteckn.* p. 27.

Pindalus ruficapillus, *Hartl. Ibis*, 1862, p. 152, pl. 5; *Gurney, t. c.* p. 152; *Sharpe, Cat. Afr. B.* p. 35; *Barratt, Ibis*, 1876, p. 202; *Gurney, t. c.* p. 429; *Seebohm, Ibis*, 1878, p. 490.

* Lettered on the Plate, by mistake, *Culicipeta ruficapilla*.

Muscicapa ruficapillus. *Layard, B. S. Afr.* p. 149.

Sylvia ruficapilla, *Gray, Hand-l. B.* i. p. 218, no. 3099.

Adult male. General colour above dull yellowish olive, the wing-coverts like the back; quills dusky brown, externally edged with yellowish olive, the margins to the primaries brighter yellow, the outermost quills margined with greyish white; lower back and rump grey, somewhat washed with olive; upper tail-coverts yellowish olive; tail-feathers light ashy brown, with yellowish edges to the feathers; head rufous, extending upon the nape, and gradually fading off on the hind neck and mantle into the yellowish olive of the back; over the eye a broad streak of bright yellow; in front of the eye a blackish spot; eye-ring and sides of face bright yellow, with a slight greenish shade on the ear-coverts and a small rufous shade on the upper edge of the latter; cheeks, throat, and breast bright yellow, the sides of the latter greenish; centre of the body paler yellow, inclining to whitish on the lower abdomen; thighs and under tail-coverts yellow; sides of body and flanks greyish; under wing-coverts, axillaries, and edge of wing yellow; quills ashy brown below, white along the edge of the inner web; "upper mandible dusky, lower one chrome-yellow; tarsi and feet dusky pale; iris dusky" (*T. L. Ayres*). Total length 4 inches, culmen 0.45, wing 2.1, tail 1.6, tarsus 0.8.

Adult female. Similar to the male, but having the mantle browner, and the lower back and rump clearer grey. Total length 4 inches, culmen 0.15, wing 2, tail 1.65, tarsus 0.75.

Hab. South Africa.

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| a. Ad. sk. | South Africa. | Sir A. Smith [C.]. |
| b. ♂ ad. sk. | Knysna. | C. J. Andersson, Esq. [C.]. |
| c. ♂ ad. sk. | Knysna, Dec. 31, 1865 (<i>C. J. Andersson</i>). | R. B. Sharpe, Esq. |
| d. ♂ ad. sk. | Port Natal, July 16, 1841 (<i>Prof. Wahlberg</i>). | R. B. Sharpe, Esq. |
| e, f. Ad. sk. | Lydenburg. | F. A. Barratt, Esq. [C.]. |
| g. ♀ ad. sk. | Macamac, June 30, 1874 (<i>T. L. Ayres</i>). | J. H. Gurney, Esq. [P.]. |

8. *Cryptolopha umbrivirens*.* (Plate XII. fig. 2.)

Sylvia (*Ficedula*) *umbrovirens*, *Rüpp. Neue Wirb. Vög.* p. 112.†

Ficedula umbrovirens, *Rüpp. Syst. Uebers.* p. 57; *Brehm, Reis. Habesch.* p. 212.

Sylvia umbrovirens, *Gray, Gen. B.* i. p. 174; *id. Hand-l. B.* i. p. 215, no. 3040.

Phylloscopus umbrovirens, *Bp. Consp.* i. p. 290; *Finsch, Tr. Z. S.* vii. p. 232.

* Lettered on the Plate, by mistake, *Culiciveta umbrivirens*.

† The bird identified by Cassin as this species from the Camma River, Gaboon (Pr. Philad. Acad. 1859, p. 40; Hartlaub, J. E. O. 1861, p. 110), is doubtless one of the European *Phylloscopi* shot during its winter journey.

Phylloscopus umbrovirens, *Blanf. Geol. & Zool. Abyss.* p. 378.

Phylloscopus umbrovirens, *Heugl. Orn. N.O.-Afr.* i. p. 301.

Pindalus umbrovirens, *Seeborn, Ibis*, 1878, p. 490.

Adult. General colour above dark umber-brown, the sides of the lower back and rump more fawn-brown; scapulars like the back; wing-coverts and quills dark ashy brown, margined with olive-yellow, brighter on the quills; tail-feathers dark ashy brown, edged externally with olive-yellow, and on the inner web with a narrow margin of dull whitish towards the tip; lores dull reddish; ring round the eye, ear-coverts and sides of face, throat and underparts reddish brown, the centre of the abdomen white; in front of the eye a blackish spot; under wing-coverts and edge of wing deep olive-yellow; axillaries pale reddish brown; quills dark brown below, whitish along the edge of the inner webs; "bill orange, the culmen and tip of upper mandible dark horn-brown; feet leaden black; iris pale umber" (*Heuglin*). Total length 3·8 inches, culmen 0·45, wing 2·2, tail 1·8, tarsus 0·8.

Hab. North-eastern Africa.

a. Ad. sk. Senati, Abyssinia. W. T. Blanford, Esq. [C.]

9. *Cryptolopha superciliaris*.

Abromis superciliaris, *Tickell, J. A. S. B.* xviii. p. 414; *Jerd. B. Ind.*

ii. p. 203; *Blyth & Wall. B. Burm.* p. 106; *Hume, Str. F.* 1874, p. 479; *id. & Davison, Str. F.* 1878, p. 359.

Abromis albigularis, *Jerd. & Blyth, P. Z. S.* 1861, p. 200 (*nec Moore*).

Abromis flaviventris, *Jerd. B. Ind.* ii. p. 203.

Abromis griseofrons, *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* 1863, p. 33.

Sylvia superciliaris, *Gray, Hand-l. B.* i. p. 217, no. 3090.

Sylvia griseofrons, *Gray, t. c.* p. 217, no. 3078.

Adult. General colour above dull olive-brown, a little clearer on the rump and upper tail-coverts; wing-coverts and quills dark brown, with olive margins, the edges to the secondaries a little brighter olive; tail-feathers light brown, margined with olive, the outer feathers fawn-coloured for the greater part of the inner web; head light ashy brown, slightly washed with olive, shading off into the olive of the back; from the base of the nostrils a narrow white line running above the eye; in front of the latter a dusky spot; sides of the head light ashy brown, the ear-coverts slightly tipped with olive; the ring round the eye dull white, as also the cheeks and feathers below the eye; throat and fore neck white; remainder of under surface from the chest downwards yellow, somewhat whiter in the middle of the abdomen; under wing-coverts whitish, washed with yellow; quills dark brown below, whitish along the edge of the inner web; "bill more or less of a dark olive-brown above, paler and more or less plumbeous on the lower mandible; inside of mouth yellow or pale orange, fleshy; irides dark brown; eyelids grey or plumbeous; legs dusky or fleshy yellow" (*Oates*); "bill black, bluish at base of lower mandible; legs and feet greenish

brown or yellow; iris dark brown" (*Davison*). Total length 4·4 inches, culmen 0·45, wing 2·05, tail 1·75, tarsus 0·75.

Hab. Himalaya Mountains; Java (*Mus. Lugd.*).

a, b, c. Ad. sk.

Nepal.

B. H. Hodgson, Esq. [P.].

d, e. Ad. sk.

Darjiling.

J. Fotheringham, Esq. [C.].

10. *Cryptolopha schwaneri*.

Sylvia schwaneri, *Tenon. in Mus. Lugd., und.*

Albornis schwaneri, *Blyth, This*, 1870, p. 169; *Salvad. Ucc. Born.* p. 245.

Sylvia schwaneri, *Gray, Hand-l. B.* iii. p. 316, no. 3093^a.

Adult female (type of species). General colour above yellowish olive, a little brighter and more yellowish green on the rump and upper tail-coverts; wing-coverts and quills dark brown, margined with ochraceous; tail-feathers dark brown, with olive margins, the outer ones fawn-colour along the inner webs; head dusky ash-colour, contrasting with the back, the nape slightly washed with olive; sides of face dusky ash-colour; over the eye a narrow streak of white; round the eye a whitish ring of feathers, in front of the eye a dusky black spot; cheeks and feathers below the eye whitish, as well as the lower ear-coverts; throat and fore neck white; remainder of under surface bright yellow, the centre of the abdomen a little whiter; under wing-coverts yellow, with white bases; quills dark brown below, edged with light fulvous along the inner web. Total length 3·8 inches, culmen 0·45, wing 1·85, tail 1·5, tarsus 0·65. (*Mus. Lugd.*)

Hab. Banjermassing, Borneo.

11. *Cryptolopha poliogenys*.

Catceipeta poliogenys, *Blyth, J. A. S. B.* xvi. p. 411.

Rhipidura poliogenys, *Gray, Gen. B.* iii. *App.* p. 12.

Albornis poliogenys, *Blyth, Cat. B. Mus. A. S. B.* p. 183; *Moore, P. Z. S.* 1854, p. 106; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 340; *Gray, Cat. Hodgs. Coll.* 1863, p. 32; *Jerd. B. Ind.* ii. p. 203; *Seebold, This*, 1878, p. 490.

Sylvia poliogenys, *Gray, Hand-l. B.* i. p. 217, no. 3082.

Adult. General colour above yellowish green, brighter yellow on the rump; tail dark brown, edged with yellowish green, the three outer tail-feathers white, with dark brown bases to the inner webs, the outer webs brown towards the end of the feathers; wing-coverts and quills dark brown, narrowly edged with yellowish green, the greater coverts with bright yellow tips forming a bar across the wing; head slaty grey, the sides of the crown blackish, forming a broad stripe reaching down the sides of the nape; sides of face also ashy grey, the ear-coverts slightly streaked with black; round the eye a broad white ring of feathers; lores and fore part of cheeks ashy whitish, with dusky bases; chin white; throat and remainder of under surface bright golden yellow, the sides of the breast somewhat washed with olive-green; under wing-coverts and edge of wing bright yellow; axillaries white, washed with yellow; quills

dusky brown below, whitish along the edge of the inner web; "bill blackish horny above, yellowish beneath; feet yellowish horny" (*Jerdon*). Total length 3·8 inches, culmen 0·4, wing 1·9, tail 1·75, tarsus 0·7.

Hab. Himalaya Mountains.

a-f. Ad. sk.

Nepal.

B. H. Hodgson, Esq. [P.].

12. *Cryptolopha castaneiceps*.

Abornis castaneocephala, *Hodgs. Icon. incl., Passeres*, pl. 57. fig. 7, pl. 58. fig. 5, pl. 64. fig. 2, *App. pl. 44* (*Hodgs.* no. 469); *id. in Gray's Zool. Misc.* p. 82; *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 66, *et App.* p. 152 (*descr. princeps*); *Blyth, J. A. S. B.* xiv. p. 593; *Jerd. B. Ind.* ii. p. 205; *Seebohm, Ibis*, 1878, p. 490.

Regulus castaneocephala, *Gray, Gen. B.* i. p. 175, pl. 49. fig. 1; *Bp. Consp.* i. p. 292.

Culicipeta castaneiceps, *Blyth, J. A. S. B.* xvi. p. 442.

Reguloides castaneiceps, *Bp. Consp.* i. p. 202; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 344; *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* 1863, p. 32; *Jerd. & Blyth, P. Z. S.* 1861, p. 200.

Abornis castanocervicis (*lapsu*), *Jerd. & Blyth, P. Z. S.* 1861, p. 199.

Sylvia castaneiceps, *Gray, Hand-l. B.* i. p. 217, no. 3083.

Adult. General colour above olive-yellow, the least wing-coverts rather brighter than the back; median and greater coverts dark brown, edged and tipped with bright yellow, forming a double bar across the wing; quills dark brown, externally edged with olive-yellow; rump bright yellow; tail-feathers light brown, edged with olive-yellow, the two outermost white, brown only along the tip of the outer web; crown of head chestnut, with a black stripe running down the sides of the nape from above the hinder part of each eye; lores white, tipped with black; round the eye a ring of white feathers; sides of face grey, as also the sides of the neck and hinder neck; a white stripe below the black streak on the sides of the nape; cheeks, throat, and chest light greyish, the centre of the body white, the sides of the breast, flanks, thighs, and under tail-coverts bright yellow; under wing-coverts, axillaries, and edge of wing bright yellow; quills dusky brown below, whitish along the inner web; bill dark horn-brown, the lower mandible paler; legs pale. Total length 3·5 inches, culmen 0·4, wing 1·85, tail 1·5, tarsus 0·65.

Hab. Himalaya Mountains.

a. Ad. st.
b-h. Ad. sk.

Nepal.
Nepal.

B. H. Hodgson, Esq. [P.].
B. H. Hodgson, Esq. [P.].

13. *Cryptolopha grammiceps*.

Sylvia grammiceps, *Verreaux, MS., undè*

Pycnosphrys grammiceps, *Strickl. Contr. Orn.* 1849, p. 124, pl. 34. fig. 1; *Bp. Consp.* i. p. 324.

Muscicapra grammiceps, *Gray, Hand-l. B.* i. p. 323, no. 4850.

Sylvia leucorrhœa, *Blyth, Ibis*, 1870, p. 169 (*ex Müller, MS., in Mus. Lugd.*).

Adult male (Mount Gédé, Java). General colour above light ashy brown; least wing-coverts olive-yellowish; median and greater series dark brown, edged with olive-yellow and tipped with bright yellow, forming a double bar across the wing; primary-coverts and quills dark brown, externally narrowly margined with olive-yellow; rump white; upper tail-coverts ashy brown, tipped with white; tail-feathers light brown, margined with olive-yellow; head and nape chestnut-rufous, with a streak of blackish brown from above the hinder part of the eye running down the sides of the nape; round the eye a ring of white; sides of face chestnut, the upper edge of the ear-coverts shaded with blackish brown; lores and cheeks lighter rufous, extending upon the sides of the neck, the loreal plumes tipped with black; under surface of body white, the chin and sides of the throat washed with rufous, extending upon the sides of the upper breast, which are ashy brown; thighs brown, washed with olive-yellow; under wing-coverts and edge of the wing yellow; axillaries white, washed with yellow; quills light brown below, whitish along the edge of the inner web. Total length 3·8 inches, culmen 0·4, wing 1·95, tail 1·6, tarsus 0·7.

Hab. Java.

a. ♂ ad. sk. Mount Gédé, Java (*Dr. Bernstein*). Leyden Museum [P.].

14. *Cryptolopha albigularis*.

Abornis albigularis, *Hodgs. Icon. ined., Passeres, App.* pl. 46 (no. 936).

Abornis albogularis, *Moore, P. Z. S.* 1854, p. 106 (*descr. princ.*); *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 340; *Jerd. B. Ind.* ii. p. 204; *Gray, Cat. Hodgs. Coll.* p. 32; *Seeborn, Ibis*, 1878, p. 490.

Abornis albiventris, *Jerd. & Blyth, P. Z. S.* 1861, p. 200.

Sylvia albogularis, *Gray, Hand-l. B.* i. p. 217, no. 3077.

Adult. General colour above yellowish green; the rump whitish, washed with yellow; wing-coverts and quills dark brown, edged with the same colour as the back, the margins of the latter rather brighter yellow; upper tail-coverts olive-yellow; tail-feathers light brown, edged with olive-yellow along the outer webs; forehead, eyebrow, and sides of face rufous fawn-colour, the hinder part of the crown and nape pale fawn-colour, the lateral feathers being tipped with black, so as to form a double band down the crown; throat whitish; breast and sides of body pale olive-yellow, the centre of the body and abdomen white; thighs and under tail-coverts olive-yellow; under wing-coverts and edge of the wing olive-yellow; axillaries white, washed with yellow; quills dull brown below, ochraceous along the edge of the inner web; "rectal bristles strong, black, nearly half as long as the bill*, and the hind toe and claw

* The Museum specimens are damaged, but the rectal bristles appear to me to be fully as long as the bill itself.

long and strong" (*Jerdon*). Total length 3·3 inches, culmen 0·35, wing 1·75, tail 1·5, tarsus 0·6.

In the specimen collected by Mr. Fotheringham the crown is ashy brown, with a streak of black from above the eye down the sides of the neck, as in the allied Javan species. The mixing of the black and fawn-colour is probably due to bad preparation of the skins.

Hab. Eastern Himalayas.

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| a. Ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| b. Ad. sk. | Darjiling. | J. Fotheringham, Esq. [C.]. |

15. *Cryptolopha fulvifacies*.

Abrornis fulvifacies, *Swinh. P. Z. S.* 1870, p. 132, et 1871, p. 357;
David & Oustalet, Ois. Chine, p. 273, pl. 23.

Adult male (Chungchow, Szechuen, May 4, 1869, *R. Swinhoe*; type of species). General colour above dull olive-yellow, the wing-coverts like the back; quills dusky brown, edged with somewhat brighter olive-yellow; rump white; upper tail-coverts olive-yellow; tail-feathers light brown, edged with olive-yellow; crown of head light brownish olive, with a black line running from above the fore part of the eye down to the sides of the nape and skirting the crown; forehead, feathers round the eye, eyebrow, sides of face, and ear-coverts fine pale rufous; cheeks and under surface of body white, the breast washed with olive-yellow, the lower throat-feathers with black bases, forming a blackish throat-patch; thighs olive-yellow; under tail-coverts bright yellow; under wing-coverts pale yellow; axillaries white, washed with yellow; quills dark brown below, yellowish white along the edge of the inner web; "bill brownish, the tip and the lower mandible lighter; feet greenish grey, the nails grey; iris chestnut-brown" (*David*). Total length 3·4 inches, culmen 0·3, wing 1·95, tail 1·5, tarsus 0·65. (*Mus. H. Seebohn*.)

This species only differs from *A. albicularis* in the colour of the crown, and may turn out to be nothing but that bird.

Hab. Western China.

16. *Cryptolopha hodgsoni*.

Abrornis, sp., *Hodgs. Icon. ined. App.* p. 48 (*Hodgs.* no. 899).

Abrornis? *hodgsoni*, *Moore, App. to Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 412; *Gray, Cat. Hodgs. Coll.* 1863, p. 33.

Tickellia hodgsoni, *Jerd. & Blyth, P. Z. S.* 1861, p. 199; *Jerd. B. Ind.* i. p. 206; *Seebohn, Ibis*, 1878, p. 490.

Adult. General colour above dark olive-green, duller on the nape and hind neck; rump bright yellow; upper tail-coverts dull green; tail-feathers brown, with olive margins, the two outer ones white along the inner web, brown on the outer; wing-coverts and quills dull brown, edged with the same colour as the back; lores white, with blackish tips; sides of head, eyebrow, and sides of neck dull

grey; throat lighter ash grey, whiter on the chin; remainder of under surface bright yellow, the thighs dusky brown; under wing-coverts and axillaries light yellow; quills dusky brown below, whitish along the edge of the inner web; "bill horny, yellowish at base beneath; legs yellowish" (*Jerdon*). Total length 3.5 inches, culmen 0.5, wing 1.9, tail 1.7, tarsus 0.8.

Hab. Eastern Himalayas.

a. Ad. st.

Nepal.

B. H. Hodgson, Esq. [P.].

b-g. Ad. sk.

Nepal.*

B. H. Hodgson, Esq. [P.].

59. SISURA.

Type.

Seisura, *Fig. & Horsf. Tr. Linn. Soc.* xv. p. 249 (1826). . . . *S. inquieta*.



Bill of *Sisura inquieta*.

Range. Confined to Australia.

1. *Sisura inquieta*.

Restless Thrush, *Lath. Gen. Syn. Suppl.* ii. p. 181, no. 11.

Doubtful Thrush, *Lath. t. c.* p. 182, no. 13.

Volatile Thrush, *Lath. t. c.* p. 183, no. 19.

Flycatching Thrush, *Lath. t. c.* p. 185, no. 25.

Turdus inquietus, *Lath. Ind. Orn. Suppl.* ii. p. xl.

Turdus dubius, *Lath. t. c.* p. xl.

Turdus volitans, *Lath. t. c.* p. xli.

Turdus muscicola, *Lath. t. c.* p. xliii.

Seisura inquieta, *Fig. & Horsf. Tr. Linn. Soc.* xv. p. 250; *Gray, Gen. B.* i. p. 260; *Gould, B. Austr. folio*, ii. pl. 87; *Blyth, Cat. B. Mus. A. S. B.* p. 205; *Bp. Consp.* i. p. 324; *Reichenb. Vög. Neuholl.* pp. 225, 286; *Cab. Mus. Hein. Th.* i. p. 56; *Gould, Handb. B. Austr.* i. p. 246; *Finsch, Neu-Guinea*, p. 169; *Gray, Hand-l. B.* i. p. 327, no. 4910; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 182.

Seisura volitans, *Swains. Nat. Libr., Flycatchers*, p. 138, pl. 12; *Gray, Gen. B.* i. p. 261.

Adult. General colour above dark slate-colour, with a greenish-grey gloss; upper tail-coverts and tail blackish, with a steel-greenish edging to the feathers; wing-coverts like the back, margined with steel-blue; quills dark brown, the inner secondaries blacker; head,

* All the specimens of this bird are presented by Mr. Hodgson as from Nepal, though Dr. Jerdon believes the species to be only found in Sikhim.

sides of face, and sides of neck glossy blue-black; in front of the eye a triangular patch of dusky grey; cheeks and under surface of body pure white, tinged with ochraceous buff on the throat and breast; thighs blackish, with white edges to the feathers; under wing-coverts ashy blackish, with somewhat of a steel-blue shade; quills light ashy brown below, shaded with whitish along the inner web; "basal half of the sides of the upper mandible and the basal two thirds of the lower mandible greenish blue; remainder of bill bluish black; legs and feet dark bluish brown; irides dark brown" (*Gould*). Total length 8 inches, culmen .0·8, wing 3·85, tail 3·7, tarsus 0·75.

Hab. Australia, excepting the northern and western portions, and Tasmania.

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| a. Ad. st. | Australia. | J. Gould, Esq. |
| b. Ad. sk. | Australia. | J. Gould, Esq. |
| c. Ad. sk. | Australia. | Purchased. |
| d, e, f. Ad. sk. | Australia. | Sir T. Mitchell [P.]. |
| g. Ad. sk. | W. Australia. | |
| h. Ad. sk. | New South Wales. | R. B. Sharpe, Esq. [P.]. |

2. *Sisura nana*.

Seisura nana, *Gould, Ann. N. H.* (4) vi. p. 224; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 182.

Head glossy greenish black; back and tail the same, but somewhat lighter; wings brownish black, the secondaries with paler edges; under surface white, tinged with buff on the chest; bill and legs bluish lead-colour. Total length 6 inches, bill $\frac{3}{4}$, wing $3\frac{3}{4}$, tail 3, tarsus $\frac{3}{4}$. (*Gould*.)

Hab. Northern Australia.

60. ARSES.

Type.

Arsez, *Lesson, Traité*, p. 387 (1831) *A. telescopthalmus*.
Orphryzone, *Ramsay, P. Z. S.* 1868, p. 383 *A. kaupi*.

Range. New Guinea and Papuan islands, extending to the north-eastern peninsula of Australia.

Key to the Species.

Males.

a. Collar round hind neck, lower throat, and breast white.

a'. With the chin black, all the rest of the under surface white.

a''. Eye-wattle blue in life.

a'''. Larger: black spot on chin more extended on the throat *telescopthalmus*, p. 409.

b'''. Smaller: black chin-spot less extended on the throat *aruensis*, p. 410.

b''. Eye-wattle yellow in life *batantæ*, p. 411.

b'. With the chin white, like the rest of the

under surface; a black band across the breast..... *kaupi*, p. 411.

- b. Collar round hind neck, lower throat, and breast light orange or Naples yellow..... *insularis*, p. 412.

Females.

- a. With a white loreal spot.

a'. Head always grey; back orange, with the wings of the same colour, the innermost secondaries orange without any dark centres; rump and upper tail-coverts like the back; tail orange-chestnut, slightly shaded with brown at the end..... *latantæ*, p. 411.

b'. Head blackish or very dark grey; hinder neck deep orange, but only a little darker than the back, which is deep orange-chestnut; wings dark brown on the inner webs, orange-chestnut externally, the innermost secondaries of the same colour; tail rufous-brown, the feathers edged with chestnut..... *telescopthalmus*, p. 410.

c'. Head grey; round the hind neck an orange collar, contrasting with the olive-brown back..... *insularis*, p. 412.

- b. With an orange loreal spot; head black; back dusky brown, as also the tail, contrasting with the orange hind neck..... *artensis*, p. 410.

1. Arses telescopthalmus.

Muscicapa telescopthasma, *Garnot, Voy. Coquille*, i. pt. 2, p. 593, pl. 19. fig. 1.

Muscicapa enado, *Less. Voy. Coquille*, i. pt. 2, p. 643, pl. 15. fig. 2; *Selater, Pr. Linn. Soc.* 1858, p. 181.

Arses telescopthalmus, *Lesson, Traité*, p. 387; *Bp. Consp.* i. p. 326; *Salvad. Ann. Mus. Civic. Genov.* viii. p. 398, ix. p. 24, x. p. 132; *Ramsay, Pr. Linn. Soc. N. S. W.* i. p. 391; *Sharpe, Journ. Linn. Soc.* xiii. pp. 316, 397.

Monarcha telescopthasma, *Swains. Classif. B.* ii. p. 257; *Gray, Gen. B.* i. p. 260; *id. P. Z. S.* 1858, p. 177, et 1859, p. 156; *id. Cat. B. New Guinea*, p. 30; *id. P. Z. S.* 1861, p. 435; *Finsch, Neu-Guinea*, p. 169; *Gray, Hand-l. B.* i. p. 320, no. 4804.

Monacha telescopthasma, *Swains. Nat. Libr., Flycatchers*, p. 140.

Adult male. General colour glossy steel-black, the scapulars and lower mantle-feathers white at their ends, where they adjoin the lower back, which, with the rump, is white, the bases to the feathers being grey; wings entirely black; upper tail-coverts and tail black; crown of head, sides of face and ear-coverts, fore part of cheeks, chin, and upper throat black, the plumes of the head of a velvety texture and with a slight steel gloss; hinder part of cheeks, sides of neck, and a collar round the hind neck, as well as entire under surface of body, pure white, including the under wing-coverts and axillaries; thighs black, as also the edge of the wing; "bill pearly grey; feet dull lead-colour or ashy; iris black; fleshy

wattle round the eye sky-blue " (*D'Albertis*). Total length 6·4 inches, culmen 0·6, wing 3·15, tail 2·85, tarsus 0·7.

Adult female. General colour orange-brown, brighter on the hind neck; wings dusky brown, all the coverts and quills externally orange-brown or rufous; tail-feathers dull brown, edged with rufous; crown of head dull slate-colour, as well as the feathers round and below the eye; in front of the latter a large spot of dull white; sides of face, sides of neck, throat, and breast orange; remainder of under surface pure white, the flanks washed with reddish brown; thighs entirely of the latter colour; under wing-coverts whitish, washed slightly with orange; quills dull brown below, rufous along the inner webs; "bill dusky; feet ashy; iris black" (*D'Albertis*). Total length 6·3 inches, culmen 0·6, wing 3·2, tail 2·9, tarsus 0·65.

Hab. New Guinea; Mysol.

| | | |
|---|--------------------------------|---------------------------|
| <i>a.</i> ♂ ad. st. | New Guinea. | |
| <i>b.</i> ♂ ad. sk. | Dorey, N. G. | A. R. Wallace, Esq. [C.]. |
| <i>c.</i> ♂ ad. sk. | Sorong, N. G., Feb. 4, | Leyden Museum [P.]. |
| | 1865 (<i>Dr. Bernstein</i>). | |
| <i>d.</i> ♀ ad. sk. | Sailolo, Salwati, July | Leyden Museum [P.]. |
| | 11, 1867 (<i>Hordt</i>). | |
| <i>d, e.</i> ♂ ad.; <i>f.</i> ♀ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.]. |

2. *Arses aruensis*.

Arses aruensis, *Sharpe*, *Notes Leyden Mus.* vol. i. no. 5, p. 21.

Adult male. Crown of head, ear-coverts, and sides of face, fore part of cheeks, chin, and extreme upper edge of throat blue-black; round the hind neck a broad white collar, joining the sides of the neck, which, with the hinder cheeks and the rest of the under surfaces of body, are pure white, excepting the tibial plumes, which are black; mantle, scapulars, and upper back blue-black; wing-coverts also blue-black, the terminal half of the inner greater coverts and the ends of the scapulars white; primary-coverts and quills black, edged with blue-black; lower back and rump white; upper tail-coverts blue-black, tail-feathers black, washed with blue-black on their margins; under wing-coverts and axillaries white; quills blackish below, ashy along the inner edge of the primaries, white on the secondaries. Total length 6·5 inches, culmen 0·6, wing 3·1, tail 2·9, tarsus 0·7.

Adult female. General colour above dusky orange-brown, the tail also dull brown, with dusky-rufous edges to the feathers; least wing-coverts like the back, the median and greater series dusky brown with orange-brown edges and tips of lighter orange; primary-coverts and quills brown, with dull orange-rufous margins, broader on the secondaries; crown of head, feathers below the eye, and ear-coverts glossy black; a loreal spot of orange; round the hind neck a collar of bright orange-rufous, contrasting strongly with the back; cheeks, throat, and breast bright orange-rufous,

deepening almost to chestnut on the latter; remainder of under surface white, the flanks washed with ashy, the sides of the upper breast orange-rufous; thighs dusky brown; under wing-coverts and axillaries white, the edge of the wing orange; quills dull brown, rufescent along the edge of the inner web. Total length 6 inches, culmen 0·55, wing 2·95, tail 2·75, tarsus 0·7.

Hab. Aru Islands and South-eastern New Guinea.

a, b. ♂ ad.; *c.* ♀ ad. sk. Aru Islands. A. R. Wallace, Esq. [C].
d, e. ♂ ♀ ad. sk. Aru Islands. Leyden Museum [P].
 (Von Rosenberg).

3. *Arses batantæ*.

Arses batantæ, Sharpe, *Notes Leyden Mus.* vol. i. no. 5, p. 20.

Adult male. Similar to *A. telescopthalmus*, but rather larger, and having the wattle round the eye yellow. Total length 7 inches, culmen 0·7, wing 3·4, tail 3, tarsus 0·75.

Adult female. General colour above light orange-rufous, the wing-coverts and inner secondaries entirely orange-rufous like the back; primary-coverts and primaries dusky brown, externally edged with light orange-rufous, the secondaries more broadly, the inner ones being almost entirely orange-rufous with a shade of dusky brown on the inner web; tail-feathers pale orange-rufous, the centre feathers dusky brown with pale rufous edges and shafts; crown of the head dark grey, as also the feathers round the eye, which are slightly mottled with white bases; loreal spot dull white; ear-coverts, sides of face, and throat light orange-buff; remainder of the under surface white, the sides of the breast washed with orange, the tibial plumes orange-rufous; under wing-coverts light orange-buff, the edge of the wing deeper orange; axillaries white, washed with orange; quills ashy brown below, rufescent along the inner web. Total length 7 inches, culmen 0·65, wing 3·3, tail 3, tarsus 0·8.

Hab. Islands of Waigiou and Batanta.

a, b. ♂ ad.; *c, d.* ♀ ad. sk. Waigiou. A. R. Wallace, Esq. [C].
e. ♂ ad. sk. Waigiou, March 14, 1863 (Dr. Bernstein). Leyden Museum [P].
f. ♀ ad. sk. Batanta, June 28, 1869 (Dr. Bernstein). Leyden Museum [P].

4. *Arses kaupi*.

Arses kaupi, Gould, *P. Z. S.* 1850, p. 278; *id.* *B. Austr. Suppl.* fol. pl. 10; *id.* *Handb. B. Austr.* i. p. 251; *Sclater*, *P. Z. S.* 1877, p. 100; *Sharpe*, *Notes Leyden Mus.* vol. i. no. 5, p. 21.

Orphryzone kaupi, *Ramsay*, *P. Z. S.* 1868, p. 383.

Monarcha kaupi, *Gray*, *Hand-l. B. i.* p. 321, no. 4806.

Arses (*Orphryzone*) *kaupii*, *Ramsay*, *Pr. Linn. Soc. N. S. W.* ii. p. 182.

Adult male (Rockingham Bay). General colour above glossy

black, the wings and tail both black; scapulars and rump white with black bases; upper tail-coverts black; crown of head and nape, sides of face and ear-coverts glossy purplish black; cheeks, throat, and a broad collar round the hind neck white; across the breast a broad band of glossy black, the central feathers varied with streaks and edgings of white; remainder of under surface of body white, with blackish bases to the flank-feathers; thighs black; under wing-coverts black, the axillaries white with black bases; quills dark brown below, lighter brown along the edge of the inner web. Total length 6 inches, culmen 0.55, wing 3.1, tail 2.9, tarsus 0.75. (*Mus. J. Gould.*)

Hab. N.E. Australia, extending as far south as Rockingham Bay.

5. *Arses insularis.*

Monarcha insularis, Meyer, *Sitz. k. Akad. Wien*, lxix. p. 395.

Arses insularis, Selater, *P. Z. S.* 1878, p. 579; Sharpe, *Notes Leyden*

Mus. vol. i. no. 5, p. 20.

Adult male. General colour above glossy blue-black, the feathers of the crown of a velvety and somewhat scaly nature; feathers of lower mantle tipped with white where they adjoin the scapulars, which, as well as the lower back, are also white with black bases; rump ashy grey, some of the feathers white at the ends; upper tail-coverts and tail jet-black; wings entirely black; lores, feathers round the eye, ear-coverts, and chin black; cheeks, throat, breast, and sides of neck pale orange, extending in a collar round the hind neck; rest of under surface, as well as the under wing-coverts and axillaries, pure white; small coverts along the edge of the wing black; thighs black. Total length 6.4 inches, culmen 0.65, wing 3.25, tail 2.75, tarsus 0.7. (*Mus. Civic. Genov.*)

Adult female. Upper surface dull ochraceous brown, with a collar of bright orange-rufous round the hind neck, contrasting with the back; wing-coverts like the back, the greater series and the quills dusky brown, margined with ochraceous brown; upper tail-coverts rufescent brown; tail dusky ochraceous brown with clearer ochraceous edges; crown of head and feathers round the eye grey; in front of the eye a white loreal spot; cheeks, throat, and breast bright orange-chestnut; remainder of under surface dull white, with a brownish shade on the flanks; thighs brown; edge of wing brown; under wing-coverts and axillaries whitish, washed with orange. Total length 6 inches, culmen 0.6, wing 3.05, tail 2.6, tarsus 0.7.

Hab. Island of Jobi in the Bay of Geelvink, and Northern New Guinea.

a, b. ♂ ♀ ad. sk. Anson, Jobi, April 1873. Dr. A. B. Meyer [C.].

61. **PIEZORHYNCHUS.**

Piezorhynchus, *Gould, P. Z. S.* 1840, p. 171.....
 Symposiachrus, *Bp. C. R.* xxxviii. p. 650 (1854)....

Type.
P. alecto.
P. trivirgatus.



Head of *Piezorhynchus alecto*.

Range. Australia; Papuan islands; Moluccas; Timor group; Louisiade archipelago.

Key to the Species.

- a.* Upper surface uniform, the mantle not differing from the crown in colour.
- a'.* Under tail-coverts bottle-green, like the rest of the under surface of body } *alecto*, p. 415.
} *nitidus*, p. 416.
- b.* Under tail-coverts chestnut or rufous.
- a''.* Under tail-coverts like the entire under surface of body; throat black in male; upper surface chestnut-brown; tail entirely chestnut *rubiensis*, p. 417.
- b''.* Under tail-coverts rufous; breast white or buffy white, like the throat.
- a'''.* Mantle light chestnut, like the back. • *alecto* ♀, p. 415.
- b'''.* Mantle dark ashy, shaded with the purple colour of the head, and separating the latter from the back, which is dark chestnut *nitidus* ♀, p. 416.
- c.* Under tail-coverts white, like the abdomen, sometimes with a slight tinge of orange.
- c''.* Sides of throat and fore neck and chest orange, as also the sides of the body.
- c'''.* Wings grey, the coverts and edges of the quills grey, like the back.
- a¹.* Fore-head black, not separated from the grey crown by a line of orange-rufous.
- a².* Upper tail-coverts black.
- a³.* White ending to outer tail-feathers not exceeding an inch in length.
- a⁴.* Much larger; wing 3·1 inches: frontal line of black only 0·15 inch in extent, black spot on the throat confined to the chin, not more than 0·2 inch, so as scarcely to extend beyond the ramus of the jaw. . *berasteini*, p. 417.

- b*⁷. Smaller; wing 3 inches; black spot on throat much larger, 0·7 inch *nigritum*, p. 418.
*b*⁶. White ending to outer tail-feathers 1·2 inch in length *trivirgatus*, p. 418.
*b*⁵. Upper tail-coverts grey, like the back *gouldi*, p. 419.
*b*⁴. Forehead black, but separated from the grey crown by a narrow line of orange-rufous *diadematus*, p. 419.
d^{'''}. Upper wing-coverts black, contrasting with the grey back.
*e*¹. White spot on tail-feathers very small; upper surface blackish, the head scarcely darker than the back. *bimaculatus*, p. 420.
*d*¹. White spot on tail-feathers larger; upper surface grey, with a conspicuous black frontal band and ear-coverts *melanopterus*, p. 420.
d^{''}. Chest white or greyish white, like the breast and rest of the under surface.
e^{'''}. Tail entirely black.
*e*¹. All the wing-coverts black like the back; ear-coverts and crown black. *dichrous*, p. 421.
*f*¹. Median and inner greater wing-coverts white, forming a conspicuous patch; a band across the crown, ear-coverts, and sides of neck white *verticalis*, p. 422.
f^{'''}. Tail black, the outer feathers tipped with white.
*g*¹. Throat black; breast white; ear-coverts black.
*e*⁵. Throat black, extending to the fore neck; wing-coverts with distinct triangular spots of white at the tip *guttulatus*, p. 422.
*d*¹. Throat black, but not extending to the jugulum; no white spots on wing-coverts. *morotensis*, p. 423.
*h*¹. Ear-coverts white.
*e*⁵. Throat white *leucotis*, p. 423.
*f*⁵. Chin black, as also lower throat, with a white bar across the middle of latter. *pilatus*, p. 424.
g^{'''}. Tail black, the outer feathers white for their entire length.
*h*¹. Larger; wing 3·55; cheeks and sides of neck white *loricatus*, p. 425.
*h*¹. Smaller; wing 3·05; cheeks and sides of neck black *leucurus*, p. 425.
h^{'''}. Tail pure white, excepting a black edging near the base and near the end of the centre feathers *infelix*, p. 426.
*d*¹. Under tail-coverts black, like the rest of the under surface; axillaries pure white *axillaris*, p. 426.
*e*¹. Under tail-coverts pale lemon-yellow, like

- the abdomen and breast; throat and chest black; tail black, yellow at base, the outer feathers entirely yellow *brehmi*, p. 426.
- b.* Upper surface not uniform, the mantle black, contrasting strongly with the head, which is fiery orange.
- a'.* Lower back, scapulars, rump, and upper tail-coverts orange-yellow, leaving the mantle only black.
- a''.* Black colour not extending behind the eye; black confined to the throat *chrysomelas*, p. 427.
- b''.* Eye surrounded by black feathers; black of throat extending to fore neck. *kordensis*, p. 427.
- b'.* Entire back and scapulars black, leaving only the rump and upper tail-coverts yellow . . . *arvensis*, p. 428.

1. *Piezorhynchus alecto*.

- Drymophila alecto*, *Temm. Pl. Col.* iii. pl. 430. fig. 1.
- Muscicapa chalybeocephala*, *Garn. Voy. Coquille*, i. p. 589, pl. 15. fig. 1; *Gray, Gen. B.* i. p. 253.
- Monarcha alecto*, *Gray, Gen. B.* i. p. 260; *Bp. Consp.* i. p. 326; *Finsch, Neu-Guinea*, p. 170; *Gray, Hand-l. B.* i. p. 320, no. 4794; *Meyer, Sitz. b. Akad. Wien*, lxxix. p. 504; *Schuler, P. Z. S.* 1877, p. 100.
- Seisura nitida*, *Gray, Gen. B.* i. p. 261; *id. Hand-l. B.* i. p. 327, no. 4911.
- Myiagra lucida*, *Gray, P. Z. S.* 1858, p. 176; *id. Cat. B. New Guinea*, p. 27; *Finsch, Neu-Guinea*, p. 170.
- Piezorhynchus lucidus*, *Gray, P. Z. S.* 1859, p. 157, et 1861, p. 434.
- Piezorhynchus chalybeocephalus*, *Gray, P. Z. S.* 1859, p. 156.
- Myiagra nitens*, *Gray, P. Z. S.* 1860, p. 352; *Finsch, Neu-Guinea*, p. 170.
- Seisura chalybeocephala*, *Gray, Hand-l. B.* i. p. 327, no. 4913.
- Seisura nitens*, *Gray, Hand-l. B.* i. p. 327, no. 4914.
- Monarcha chalybeocephalus*, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 768.

Adult male. General colour above and below glossy black, with a steel-green lustre, the feathers of the head velvety, and the ear-coverts shaded with purple; lower abdomen dusky black, without gloss; quills and tail black externally, edged with the same greenish black as the back: "bill dull pearly grey; feet black; iris black" (*D'Albertis*). Total length 7 inches, culmen 0·7, wing 3·6, tail 3·0, tarsus 0·8.

Adult female. Different from the male. General colour above light chestnut or bay; tail entirely bay, like the back; wings uniform with the back, the quills dark brown, externally bay, like the back, the innermost secondaries entirely of the latter colour; round the hind neck a shade of dusky grey, slightly extending upon the mantle; head and sides of face glossy steel-green, somewhat shaded with purple on the ear-coverts; cheeks and entire under surface of body pure white, the sides and under wing-coverts somewhat shaded with pale rufous; under tail-coverts washed with fulvous; quills

dusky blackish below, rufous along the inner webs. Total length 6·6 inches, culmen 0·65, wing 3·3, tail 2·8, tarsus 0·8.

Obs. The tint in the males varies from a purplish-black lustre to an oily greenish black. The most completely purple specimen examined by me is one from S.E. New Guinea, collected by D'Albertis, and lent me by Count Salvadori; but every gradation is seen in a series from this purplish colour to the oily green and steel-green. The birds from Batchian and Gilolo are smaller, but do not seem to constitute more than a race.

Hab. New Ireland and Duke of York Island, westward through New Guinea to the islands of Mysol, Waigiou, Batchian, and neighbouring Molucca islands.

a. *P. alecto*.

| | | |
|---------------------------|--------------------------------|--|
| a, b. ♂ ♀ ad. sk. | Duke of York Island. | Rev. G. Brown [C.]. |
| c, d. ♂ ♀ ad. sk. | Port Moresby, S.E. New Guinea. | O. C. Stone, Esq. [C.]. |
| e, f. ♂ ♀ ad. sk. | New Guinea. | A. R. Wallace, Esq. [C.]. |
| g, h. ♂ ♀ ad. sk. | Dorey, N. G. | A. R. Wallace, Esq. [C.]. |
| i. ♂ ad. sk. | Arfak Mountains, N. G. | M. Laglaize [C.]. |
| k, l. ♂ ♀ ad. sk. | Waigiou. | A. R. Wallace, Esq. [C.]. |
| m, n. ♂ ad.; o. ♀ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.]. |
| p. ♂ ad. st. | Louisiade archipelago. | J. Macgillivray, Esq. [C.]. (Type of <i>P. lucidus</i> .) |

b. *P. nitens*.

| | | |
|-------------------|-----------|---------------------------|
| a. ♂ ad. sk. | Gilolo. | A. R. Wallace, Esq. [C.]. |
| b. ♂ ad. sk. | Batchian. | A. R. Wallace, Esq. [C.]. |
| c, d. ♂ ♀ ad. sk. | Ternate. | A. R. Wallace, Esq. [C.]. |

2. *Piezorhynchus nitidus*.

Piezorhynchus nitidus, *Gould, P. Z. S.* 1840, p. 171; *id. B. Austr.* fol. ii. pl. 88; *Bp. Consp.* i. p. 324; *Reichenb. Vög. Neuhol.* pp. 157, 287; *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 182.

Piezorhynchus rufolateralis, *Gray, P. Z. S.* 1858, p. 176; *id. Cat. B. New Guinea*, p. 27.

Seisura nitida, *Gray, Hand-l. B.* i. p. 327, no 4911.

Seisura rufolateralis, *Gray, Hand-l. B.* i. p. 327, no. 4912.

Adult male. General colour bottle-green, with a steel-blue gloss; wing-coverts like the back; quills browner, the secondaries edged with the green of the back; tail-feathers black, edged with steel-green; under surface of body like the upper. Total length 7·3 inches, culmen 0·7, wing 3·5, tail 3·2, tarsus 0·9.

Adult female. General colour above deep chestnut, the crown of the head dull steel-blue, shading off on the hind neck, the latter and the mantle dark ashy brown; wings like the back, the primary-coverts tipped with dusky, the quills dusky brown on the inner webs and at the tips, the inner secondaries like the back; tail chestnut, with rufous shafts to the feathers; sides of face like the head; cheeks and under surface of body white or buffy white; thighs

dusky brown; flanks pale chestnut; under wing-coverts and axillaries like the breast; quills dusky brown below, with rufous edgings to the inner webs. Total length 6·8 inches, culmen 0·7, wing 3·15, tail 2·9, tarsus 0·9.

Obs. The present species differs from *P. alecto* only in having a very much longer and thinner bill, but the females are distinguishable by the characters given in the key. Neither in the British Museum nor in the series collected by Dr. Beccari, and lent to me by Count Salvadori, is there an adult male from the Aru Islands. Nevertheless I believe that the birds from the latter locality are identical with *P. nitidus*, judging from the narrowness of the bill and the exactly similar coloration of the females.

Hab. Northern Australia, as far south as Port Denison; Aru Islands.

| | | |
|---|-----------------|---------------------------|
| <i>a, b.</i> ♂ ad. st. | Port Essington. | Dr. Sibbald [P.]. |
| <i>c, d.</i> ♀ ad. sk. | Port Essington. | Capt. Chambers [P.]. |
| <i>e.</i> ♂ juv. sk. | Port Essington. | J. B. Jukes, Esq. [P.]. |
| <i>f, g.</i> ♂ juv.; <i>h.</i> ♀ juv. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. |

(Types of *P. rufolateralis*.)

3. *Piezorhynchus rubiensis*.

Tchitrea rubiensis, Meyer, Sitz. b. Akad. Wien, lvi. p. 494.

Monarcha mentalis, Salvad. Ann. Mus. Civic. Genov. vi. p. 310 (1874).

Monarcha rubiensis, Salvad. Ann. Mus. Civic. Genov. vii. p. 922, x. p. 132.

Adult male (type of species). General colour rufous-brown, with somewhat of a greyish shade on the crown; wing-coverts like the back; quills dusky brown, externally rufous; upper tail-coverts and tail rufous; frontal plumes, lores, sides of face, and under surface of body rufous, much paler and inclining to white on the lower abdomen; chin and upper throat black; under wing-coverts like the breast. Total length 6·9 inches, culmen 0·65, wing 3·55, tail 3·3, tarsus 0·7. (*Mus. Civic. Genov.*)

Adult female (Andai, Bruijn). Differs from the foregoing in wanting the black throat. Total length 6·5 inches, culmen 0·65, wing 3·6, tail 3·2, tarsus 0·7. (*Mus. Civic. Genov.*)

The colour of the under surface in the last-mentioned bird is a rich foxy red, and the wings and tail are chestnut; this is probably the natural colour of the species, as the type was preserved in spirit, and has evidently faded a good deal.

Hab. North-western New Guinea.

4. *Piezorhynchus bernsteini*.

Monarcha bernsteini, Salvad. Ann. Mus. Civic. Genov. xii. p. 322.

Adult female (Sailolo, Salwati, Bernstein; type of species). General colour above dark bluish slate-colour, the head exactly like the back, as also the wing-coverts; quills dusky blackish, externally edged with slaty grey like the back; upper tail-coverts and tail black, the three outer tail-feathers tipped with white, less extensive

on the third rectrix; a narrow frontal band 0·15 inch in extent; lores, feathers above and below the eye, a spot at base of lower mandible, and a chin-spot 0·2 inch in extent black; ear-coverts black, shaded with slaty grey; remainder of cheeks, entire throat and breast rich orange-rufous, the abdomen and under tail-coverts white, the flanks washed with orange; thighs black; under wing-coverts and axillaries white, with a slight tinge of orange, the feathers on the edge of the wing black, edged with grey; quills ashy blackish below. Total length 6 inches, culmen 0·65, wing 3·1, tail 2·8, tarsus 0·75. (*Mus. Lugd.*)

Hab. Salwati, N.W. of New Guinea.

5. *Piezorhynchus nigrimentum*.

Monarcha nigrimentum, *Gray*, *P. Z. S.* 1860, p. 352; *Finsch*, *Neu-Guinea*, p. 169; *Gray*, *Hand-l. B.* i. p. 320, no. 4800.

Adult male. General colour above slaty grey, the wing-coverts like the back, the greater series and the quills blackish, externally edged with grey; upper tail-coverts and tail black, the three outer feathers with broad white ends, increasing in extent towards the outermost; a narrow frontal band, lores, feathers above and below the eye, ear-coverts, and fore part of cheeks at base of lower mandible black; remainder of cheeks and sides of throat, as well as the fore neck, orange-rufous; remainder of under surface of body white, slightly washed with orange on the chest and sides of the body; thighs black; under wing-coverts and axillaries white, slightly tinged with orange; "bill and feet bluish lead-colour, the tip black; iris dark" (*Wallace, MS.*). Total length 7 inches, culmen 0·6, wing 3·05, tail 2·9, tarsus 0·7.

Adult female. Similar to the male. Total length 6·6 inches, culmen 0·65, wing 2·85, tail 2·8, tarsus 0·7.

Young. Differs from the adult in having the orange colour diffused more widely on the underparts, the chin being greyish, not black; no black on the forehead and sides of face; the white tips to the outer tail-feathers smaller.

Hab. Molucca Islands: Amboyna, Goram.

| | | |
|------------------------|----------|--|
| <i>a.</i> ♀ ad. sk. | Amboyna. | A. R. Wallace, Esq. [C.] (Type of species.) |
| <i>b, c.</i> Imm. sk. | Amboyna. | A. R. Wallace, Esq. [C.] |
| <i>d, e.</i> ♂ ad. sk. | Goram. | A. R. Wallace, Esq. [C.] |

6. *Piezorhynchus trivirgatus*.

Drymophila trivirgata, *Temm. Pl. Col.* iii. pl. 418. fig. 1.

Monarcha trivirgata, *Gray*, *Gen. B.* i. p. 260; *Bp. Consp.* i. p. 326; *Wall. P. Z. S.* 1863, p. 485; *Finsch*, *Neu-Guinea*, p. 169; *Gray*, *Hand-l. B.* i. p. 320, no. 4797.

Adult male. General colour above ashy grey, the wing-coverts like the back; greater coverts and quills brown, externally edged with dull ashy grey, the inner secondaries washed with this colour; upper tail-coverts and tail-feathers black, the three outer ones broadly

tipped with black, with traces of a white spot at the tip of the fourth; forehead, lores, feathers round the eye, and ear-coverts black, as also the plumes at the angle of the mouth and the chin and centre of throat; hinder part of cheeks, sides of throat, fore neck, and chest bright orange-rufous, paler on the sides of the body; centre of breast, abdomen, and under tail-coverts white; thighs white, with dusky bases; under wing-coverts and axillaries white; quills greyish brown below, ashy along the edge of the inner webs. Total length 5·8 inches, culmen 0·55, wing 2·9, tail 2·8, tarsus 0·7.

Adult female. Not to be distinguished from the male. Total length 6 inches, wing 2·7, tail 2·6, tarsus 0·7.

Hab. Timor group of islands.

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| <i>a, b.</i> ♂ ♀ ad. sk. | Timor. | A. R. Wallace, Esq. [C.]. |
| <i>c.</i> Ad. sk. | Timor. | A. R. Wallace, Esq. [C.]. |

7. *Piezorhynchus gouldi*.

Monarcha trivirgata, *Gould, Syn. B. Austr.* pt. ii.; *id. B. Austr.* fol. ii. pl. 96; *id. Handb. B. Austr.* i. p. 263; *Reichenb. Vög. Neuholl.* pp. 227, 287.

Monarcha gouldi, *Gray, P. Z. S.* 1860, p. 352; *id. Hand-l. B.* i. p. 320, no. 4798; *Ramsay, Proc. Linn. Soc. N. S. W.* ii. p. 182.

Monarcha albiventris, *Gould, P. Z. S.* 1866, p. 217; *id. B. Austr.* fol. *Suppl.* pl. 13; *Gray, Hand-l. B.* i. p. 320, no. 4803; *Ramsay, Proc. Linn. Soc. N. S. W.* ii. p. 182.

Adult male. Like *M. trivirgatus*, and only to be distinguished by the absence of white on the fourth outer tail-feather, the three outermost only tipped with white. Total length 6 inches, culmen 0·55, wing 3, tail 2·9, tarsus 0·7.

Hab. North-east Australia.

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|---------------------|---------------------------------------|---------------------|
| <i>a.</i> ♂ ad. sk. | Cape York (<i>J. Macgillivray</i>). | Capt. Stanley [P.]. |
| <i>b.</i> ♂ ad. sk. | Rockingham Bay. | Capt. Stanley [P.]. |

8. *Piezorhynchus diadematus*.

Monarcha diadematus, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 321.

Adult male. General colour above dark ashy grey, the least wing-coverts like the back; median and greater coverts and quills brown, edged with the same grey as the back, less distinctly on the quills; upper tail-coverts darker grey than the back; tail-feathers dark sepia-brown, the two outer ones with a white spot at the tip; frontal band black, separated from the crown by a band of orange-rufous; feathers above and round the eye, ear-coverts, fore part of cheeks, and a large throat-spot black; hinder part of cheeks, lower throat, and breast pale orange-buff; remainder of under surface of body white, with a tinge of orange-buff on the flanks; thighs grey; under wing-coverts and edge of wing dark grey; axillaries white; quills dark brown below, ashy along the edge of the inner web. Total length 5·7 inches, culmen 0·55, wing 2·9, tail 2·7, tarsus 0·7.

Adult female. Similar to the male, but having the orange-buff of

the breast much paler and inclining to white. Total length 5·7 inches, culmen 0·6, wing 2·85, tail 2·7, tarsus 0·65.

Hab. Obi group of islands, Moluccas.

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| <i>a.</i> ♂ ad. sk. | Obi, Aug. 7, 1867 (<i>Von Rosenberg</i>). | Leyden Museum [P.]. |
| <i>b.</i> ♀ ad. sk. | Obi Lattoo, Aug. 8, 1862 (<i>Dr. Bernstein</i>). | Leyden Museum [P.]. |

9. *Piezorhynchus bimaculatus*.

Monarcha bimaculata, *Gray*, *P. Z. S.* 1860, p. 352; *id.* *Hand-l. B.* i. p. 320, no. 4799.

Monarcha bimaculatus, *Salvad.* *Ann. Mus. Civic. Genov.* vii. p. 768 (1875).

Adult male (type of species). General colour above dark slaty grey, the wings black; upper tail-coverts and tail black, the three outer feathers tipped with white, increasing in extent towards the outermost; forehead, feathers above and below the eye, and ear-coverts black; a spot at angle of mouth and throat black also; cheeks and sides of throat and fore neck rusty orange, becoming paler on the sides of the body; breast and centre of body and under tail-coverts whitish, with a fulvous tinge; thighs blackish; under wing-coverts white, somewhat tinged with rusty. Total length 6 inches, culmen 0·65, wing 2·85, tail 2·55, tarsus 0·65.

Young. Differs from the adult in wanting the black on the forehead, face, and throat, the forehead being, like the crown, slightly hoary; ear-coverts grey, like the crown; feathers in front of the eye, cheeks, throat, and chest orange-rufous, the chin grey; wings and tail browner than in the adult.

A slight variation takes place in the colour of the under surface in this species, some individuals being nearly white, others distinctly washed with rufous.

Hab. Batchian, Gilolo, Morty Island.

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| <i>a, b.</i> ♂ ad. sk. | Batchian. | A. R. Wallace, Esq. [C.]. (Types of species.) |
| <i>c.</i> Ad.; <i>d.</i> Juv. sk. | Batchian. | A. I. Wallace, Esq. [C.]. |
| <i>e, f.</i> Ad.; <i>g.</i> Juv. sk. | Gilolo. | A. I. Wallace, Esq. [C.]. |
| <i>h, i, k.</i> Ad. sk. | Morty Island. | A. I. Wallace, Esq. [C.]. |

10. *Piezorhynchus melanopterus*.

Monarcha melanoptera, *Gray*, *P. Z. S.* 1858, p. 178; *id.* *Cat. B. New Guinea*, p. 29; *Finsch*, *New-Guinea*, p. 169; *Gray*, *Hand-l. B.* i. p. 320, no. 4802.

Adult male (type of species). General colour above dark ashy grey, the least wing-coverts like the back; remainder of the wing-coverts blue-black, contrasting strongly with the back; quills brown, externally edged with grey, the inner secondaries almost entirely grey; upper tail-coverts and tail-feathers black, the three outermost broadly tipped with white, increasing in extent towards the outer-

most; forehead, lores, feathers above and below the eye, ear-coverts, feathers at base of lower mandible, and throat blue-black; behind the ear-coverts a white line running down the sides of the head; cheeks, sides of throat, and under surface of body bright orange-rufous; centre of breast, abdomen, and under tail-coverts white; thighs dusky grey; under wing-coverts white, those near the edge of the wing black; quills ashy brown below, edged with pale fulvous along the inner web. Total length 5·8 inches, culmen 0·6, wing 3, tail 2·9, tarsus 0·75.

Hab. Louisiade archipelago.

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| a. ♂ ad. sk. | Round Island, Louisiade archipelago. | J. Macgillivray, Esq. [P.] (Type of species.) |
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11. *Piezorhynchus dichrous*.

Muscicapa manadensis, *Quoy et Gaim. Voy. de l'Atrol. Zool.* i. p. 176, pl. 3, fig. 3; *Oustal. Bull. Soc. Philom.* 1878, p. 58.

Hypothymis manadensis, *Bp. C. R.* xxxviii. p. 652, note; *Walden, Tr. Z. S.* vii. p. 66.

Monarcha dichroa, *Gray, P. Z. S.* 1859, p. 156; *id. P. Z. S.* 1861, p. 435; *Finsch, Neu-Guinea*, p. 169; *Gray, Hand-l. B.* i. p. 320, no. 4796.

Myiagra menadensis, *Gray, P. Z. S.* 1860, p. 352; *id. Hand-l. B.* i. p. 328, no. 4921.

Monarcha dichrous, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 819, x. p. 132.

Adult (type of species). General colour above glossy purplish black; wings and tail entirely black, edged with the same purplish black as the back; sides of face, sides of neck, and entire throat and fore neck purplish black, like the upper surface, the plumes of the latter tipped with white where they adjoin the breast, which, with the rest of the under surface is white; thighs black; under wing-coverts white, those along the edge of the wing black; quills ashy black, lighter along the edge of the inner web; "bill black; feet ashy; iris black" (*D'Albertis*). Total length 6·9 inches, culmen 0·65, wing 3·2, tail 2·95, tarsus 0·7.

Adult female. Differs from the male in being more cindery black with a distinct gloss, instead of being purplish black. Total length 6·2 inches, wing 3·25, tail 2·7, tarsus 0·7.

An individual marked "male" by Laglaize is like the adult female, but has hoary edgings to the feathers of the throat and crown. It is probably a young male, but shows no other signs of immaturity.

Hab. New Guinea.

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|-------------------|------------------------|--|
| a. Ad. sk. | New Guinea. | A. R. Wallace, Esq. [C.] (Type of species.) |
| b, c. ♂ ♀ ad. sk. | Amberbaki, New Guinea. | M. Laglaize [C.] |
| d. ♂ jun. sk. | Amberbaki, New Guinea. | M. Laglaize [C.] |

12. *Piezorhynchus verticalis*.

Monarcha verticalis, *Sclater*, *P. Z. S.* 1877, p. 99, pl. xiv. fig. 1.

Adult. Above black; rump, primary-coverts, median, and all of the secondaries white; frontal plumes, sides of face and region of the eye, and entire throat black, rather inclined to stand out, producing a somewhat scaly appearance; a white band across the crown composed of similar plumes; abdomen and under wing-coverts white; bill and feet black. Total length 6 inches, wing 3·3, tail 2·11. (*Sclater*.)

Hab. Duke of York Island.

13. *Piezorhynchus guttulatus*.

Muscicapa guttula, *Garnot*, *Voy. Coquille*, *Zool.* i. p. 591, pl. 16. fig. 2.

Monarcha guttata, *Gray*, *Gen. B.* i. p. 260.

Monarcha guttula, *Bp. Consp.* i. p. 326; *Gray*, *P. Z. S.* 1858, p. 177; *id. Cat. B. New Guinea*, p. 29; *id. P. Z. S.* 1861, p. 435; *Finsch*, *Neu-Guinea*, p. 169; *Gray*, *Hand-l. B.* i. p. 320, no. 4789.

Monarcha griseocularis, *Gray*, *P. Z. S.* 1858, p. 177; *id. Cat. B. New Guinea*, p. 29; *Finsch*, *Neu-Guinea*, p. 169; *Gray*, *Hand-l. B.* i. p. 320, no. 4790.

Monarcha guttulatus, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 768; *Salvad. & D'Albert. t. c.* p. 818; *Salvad. op. cit.* ix. p. 24, x. p. 132; *Sharpe, Journ. Linn. Soc.* xiii. p. 497.

Adult male. General colour above ashy grey with a slight bluish gloss; least wing-coverts and innermost greater coverts like the back; remainder of wing-coverts blue-black with large white terminal spots; quills brown, externally edged with ashy grey, the inner secondaries washed with the latter colour; upper tail-coverts and tail blue-black, the four outer feathers tipped broadly with white, decreasing in extent towards the centre of the tail; a broad frontal band, lores, feathers above the eye, sides of face, ear-coverts, and throat glossy blue-black, of a velvety texture; sides of neck and feathers running up behind the ear, and the entire under surface of body white, the flanks slightly shaded with grey; thighs black; under wing-coverts white, the edge of the wings black; quills ashy brown below, paler along the edge of the inner web; "bill pearl-grey; feet clear ashy; iris black" (*D'Albertis*). Total length 6·5 inches, culmen 0·7, wing 3·1, tail 2·8, tarsus 0·65.

The male described is from Mysol; another in equally fine plumage has only one row of white spots on the median wing-coverts, none on the greater series. These spots also vary in size greatly; and as they are absent in the young bird, it is probable that the two rows of spots on the coverts are an indication of perfect plumage.

Young. Differs from the adult in having the throat ashy, with a certain amount of black on the malar region; there is no black on the forehead and sides of face, these being ashy like the upper parts; the wing-coverts are also ashy like the back, and have no white

spots at all; white tips to the tail-feathers also smaller. Wing 2·8 inches, tail 2·7, tarsus 0·65. In the quite immature bird (*M. griseigularis* of Gray) the breast is tinged with rusty orange.

Hab. New Guinea, Aru Islands, Mysol, Waigiau.

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|-------------------------|--|-------------------------------------|
| <i>a.</i> Ad. sk. | Monile, near Port Moresby, O. C. Stone, Esq. [C.]. | |
| | S.E. New Guinea. | |
| <i>b.</i> ♂ ad. sk. | Karons, New Guinea, April 1877. | M. Laglaize [C.]. |
| <i>c, d.</i> ♂ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. |
| <i>e.</i> ♂ juv. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. |
| | | (Type of <i>M. griseigularis</i> .) |
| <i>f, g.</i> ♂ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.]. |
| <i>h, i.</i> ♀ juv. sk. | Mysol. | A. R. Wallace, Esq. [C.]. |
| <i>k.</i> ♂ ad. sk. | Waigiau. | A. R. Wallace, Esq. [C.]. |

14. *Piezorhynchus morotensis*.

Adult female. General colour above slaty grey; wings dark brown, the coverts deep black; upper tail-coverts and tail black, the two outer feathers broadly tipped with white; a broad frontal band of black; sides of face, feathers above the eye, and ear-coverts purplish black; fore part of cheeks and throat also purplish black, not extending to the jugular region and ending in a point; hinder part of cheeks and sides of neck, as well as entire under surface of body from the jugulum downwards, pure white; thighs black; under wing-coverts and axillaries white, excepting the ones near the edge of the wing, which form a black patch. Total length 6 inches, culmen 0·55, wing 2·95, tail 2·75, tarsus 0·65.

Hab. Morotai or Morty Island, Moluccas.

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| <i>a.</i> ♀ ad. sk. | Morty Island. | A. R. Wallace, Esq. [C.]. |
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15. *Piezorhynchus leucotis*.

Monarcha leucotis, Gould, *P. Z. S.* 1850, p. 101; *id.* *B. Austr. Suppl.* pl. 10; Gray, *Cat. B. New Guinea*, p. 30; *id.* *P. Z. S.* 1861, p. 435; Finsch, *New-Guinea*, p. 169; Gould, *Handb. B. Austr.* i. p. 264; Gray, *Hand-l. B.* i. p. 320, no. 4792; Ramsay, *Pr. Linn. Soc. N. S. W.* ii. p. 182.

Adult. General colour above glossy black, the upper tail-coverts white; tail black, all but the four centre feathers tipped with white, increasing greatly in extent towards the outermost, which has a very broad white end, even extending some way up the outer web; wings black, the coverts broadly tipped with white, the innermost median and greater ones pure white, forming a large patch; the inner secondaries broadly edged with white on their outer webs; sides of face black, with the exception of the ear-coverts, which are white, as well as a spot in front of the eye and another larger one above the ear-coverts, from which it is separated by a narrow line of black; throat white, with more or less concealed black bases; rest of under surface of body light ashy, the abdomen and under

tail-coverts white, as well as a narrow prepectoral collar, the latter not distinctly marked: thighs black; under wing-coverts and axillaries ashy white, as also the inner edges to the quills. Total length 5·7 inches, culmen 0·55, wing 2·85, tail 2·7, tarsus 0·7.

Hab. Louisiade archipelago and North-eastern Australia.

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| a. Ad. st. | Louisiade Islands. | J. Macgillivray, Esq. [C.]. |
| b. Ad. sk. | Cape York, N.H. Australia. | J. Gould, Esq. (Type of species.) |

16. *Piezorhynchus pileatus*.

Monarcha pileatus, *Salvad. Ann. Mus. Civic. Genov.* xii. p. 322.

Adult male (Weda, Halmahera, Jan. 13, 1863, *Bernstein*; type of species). General colour above glossy purplish black, becoming white on the rump, the upper tail-coverts pure white; tail-feathers black, the three outer ones with white tips, more extended on the outermost; wings black, with a large white patch on the coverts formed by the innermost of the least and median series being entirely white; the inner greater coverts externally white, and some of the inner secondaries white along the outer web, forming a bar down the wing; scapulars white, and some of the innermost secondaries white at the base; across the hinder part of the crown a broad white band; round the neck a white collar; sides of face and throat black, with a white spot in front of the eye and a white band across the throat; ear-coverts white; remainder of under surface of body white, with a slight greyish shade on the chest and sides; thighs black; under wing-coverts and axillaries white; quills dark brown below, whiter along the edge of the inner web. Total length 5·1 inches, culmen 0·55, wing 2·6, tail 2·35, tarsus 0·6. (*Mus. Lugd.*)

Young male (Weda, Jan. 13, 1863, *Bernstein*). Nearly uniform blackish above, the upper tail-coverts white; tail brownish black, the three outer feathers with white tips, as in the male; no white bar across the head, nor a white collar round the neck; ear-coverts, lores, and feathers below the eye and on the anterior part of the cheeks dull white, mostly shaded with ashy; an indistinct eyebrow of ashy grey, with white bases to the feathers; sides of neck also ashy, obscuring the white bases; underneath, the body is ashy grey, the throat white, shading into fawn-colour on the lower part, the centre of the abdomen, under tail-coverts, thighs, and under wing-coverts white; wings above browner than in the adult; the median coverts broadly tipped with white, the innermost of this series and the innermost greater coverts entirely white, some few of them edged with blackish; the inner secondaries edged with buff. Total length 5·2 inches, culmen 0·55, wing 2·5, tail 2·1, tarsus 0·55. (*Mus. Lugd.*)

The foregoing specimen is marked by the late Dr. Bernstein as a male, but might possibly be the adult female. The adult male is not in good condition, and it is difficult to make out the exact distribution of the white tracts of feathers.

Hab. Island of Halmahera or Gilolo, in the Moluccas.

17. *Piezorhynchus loricatus*.

Monarcha loricata, Wallace, *P. Z. S.* 1863, p. 29, pl. 6; *Finsch, New-Guinea*, p. 169; *Gray, Hand-l. B. i.* p. 320, no. 4801.

Monarcha loricatus, *Salvad. Ann. Mus. Civic. Genor.* viii. p. 377.

Adult male (type of species). General colour glossy black, the wing-coverts resembling the back; greater series and quills black, externally broadly edged with glossy black; two centre tail-feathers black, with a small amount of white at the extreme base, the next one on each side black, with a great patch of white along the inner web, the rest white, with a band of black at the tip, this band gradually diminishing in size towards the outermost feathers, which are entirely white; sides of face, feathers at fore angle of cheeks, and entire throat black, the plumes of the latter rounded and scale-like; remainder of cheeks, sides of neck, and entire under surface pure white; thighs black; under wing-coverts white, those near the edge of the wing black; quills black below, with a good amount of white along the inner web of the innermost secondaries: "bill and feet lead-colour, the tip of the bill and edges of mandibles pale horny; iris dark" (*Wallace, MS.*). Total length 7.3 inches, culmen 0.6, wing 3.55, tail 3.3, tarsus 0.75.

Adult female. Similar to the male. Total length 7.3 inches, culmen 0.65, wing 3.25, tail 3, tarsus 0.75.

Obs. The black tips to the tail seem to vary in extent according to the age of the bird, sometimes the three outer tail-feathers being entirely white.

Young. Different from the adult. Brown above, with more or less of an ashy shade on the head, the forehead tinged with rusty; feathers round the eye dark ashy; in front of the eye a triangular spot of buffy white; ear-coverts dusky brown; cheeks, sides of neck, and under surface of body rich rusty buff; wings brown like the back; tail blackish, the outer feathers rusty brown, with more or less brownish-black edges.

Another young bird is similarly coloured, but has a good many black feathers appearing, and the throat is blackish.

Hab. Island of Bouru, in the Moluccas.

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| <i>a, b.</i> ♂ ♀ ad. sk. | Bouru. | A. R. Wallace, Esq. [C.]. |
| <i>c.</i> Ad. sk. | Bouru. | (Types of species.) A. R. Wallace, Esq. [C.]. |
| <i>d, e.</i> Juv. sk. | Bouru. | A. R. Wallace, Esq. [C.]. |

18. *Piezorhynchus leucurus*.

Monarcha leucura, *Gray, P. Z. S.* 1858, p. 178, et 1861, p. 435; *id. Cat. B. New Guinea*, p. 29; *Finsch, New-Guinea*, p. 169; *Gray, Hand-l. B. i.* p. 320, no. 4791.

Adult male (type of species). General colour above glossy blue-black; wing-coverts like the back, greater series and quills black, with edgings of blue-black; four centre tail-feathers black, the next one on each side white, with a large basal patch and a tip of

black, all the others pure white excepting a more or less concealed basal spot of black; sides of face, sides of neck, and entire throat black, like the upper surface; remainder of under surface of body pure white, including also the under wing-coverts and the inner margin of the quills; "bill and feet leaden blue" (Wallace, MS.). Total length 6·3 inches, culmen 0·6, wing 3·05, tail 2·9, tarsus 0·7.

Hab. Ké Islands, in the Moluccas.

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| <i>a.</i> ♂ ad. sk. | Ké Islands. | A. R. Wallace, Esq. [C]. (Type of species.) |
| <i>b.</i> ♂ ad.; <i>c.</i> ♂ juv. sk. | Ké Islands. | A. R. Wallace, Esq. [C]. |

19. *Piezorhynchus infelix*.

Monarcha infelix, *Sclater*, *P. Z. S.* 1877, p. 552.

Adult male (Admiralty Islands, *Murray*, *Voy. of H.M.S. 'Challenger'*; type of species). General colour above blue-black; wings black, with a large patch of white, formed by the median coverts and the tips to the inner lesser coverts; tail-feathers pure white, the centre feathers broadly edged with black towards the tip, which is also black; from behind the eye a white streak, widening out into a triangular patch on the sides of the neck; ear-coverts, sides of face, throat, and chest black; remainder of under surface white, the thighs black, edged with white; under wing-coverts and axillaries white, the lower series black, edged with white; quills black below. Total length 6 inches, wing 3·1, tail 2·9, tarsus 0·55.

Hab. Admiralty Islands.

20. *Piezorhynchus axillaris*.

Monarcha axillaris, *Salced*, *Ann. Mus. Civic. Genov.* vii. p. 921.

Adult male (Mount Arfak; type of species). General colour above and below glossy blue-black; wing-coverts blackish, edged with glossy blue-black, like the back; tail black; under wing-coverts and axillaries pure white, the latter forming a conspicuous patch on each side of the breast. Total length 5·7 inches, culmen 0·5, wing 3·2, tail 2·95, tarsus 0·75. (*Mus. Genov.*)

Female (not quite adult; Andai). Differs from the male in being dark slate-colour above and below, with a slight bluish gloss, the breast brown (apparently remains of young plumage); wing brownish black; tail black. Total length 6 inches, wing 3·1, tail 2·9, tarsus 0·7. (*Mus. Civic. Genov.*)

Hab. North-western New Guinea.

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| <i>a.</i> ♂ ad. sk. | Arfak Mountains (<i>Bruijn</i>). | Leyden Museum [P]. |
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21. *Piezorhynchus brehmi*.

Monarcha brehmi, *Schl. N. T. D.* iv. p. 14 (c.f. *Von Rosenberg*, MS.); *Beccari*, *Ann. Mus. Civic. Genov.* vii. p. 709.

Adult male. General colour above velvety blue-black, as well as

the sides of the face, throat, and chest; above the eye a spot of straw-yellow; from behind the upper part of the eye a broad streak of straw-yellow, running above the ear-coverts: wings velvety black, like the back, all the median and greater wing-coverts (except the extreme outer ones of both series) straw-yellow, forming a conspicuous patch; inner secondaries also pale straw-yellow, nearly white on their outer webs; upper tail-coverts and tail (imperfect) straw-yellow, the centre feathers black at the ends, this increasing in extent towards the middle of the tail; under surface of body, from the chest downwards, straw-yellow, including the under wing-coverts and axillaries; thighs black at tarsal bend. Total length 6·4 inches, culmen 0·65, wing 3·35, tail 2·8, tarsus 0·7. (*Mus. Civic. Genov.*)

Hab. Island of Misori, in the Bay of Geelvink.

22. *Piezorhynchus chrysomelas*.

Muscicapa chrysomela, *Garn. Voy. de la Coquille*, Zool. i. p. 594, *Atlas*, pl. 18, fig. 2.

Monarcha chrysomela, *Swains. Classif. B.* ii. p. 257; *id. Nat. Libr. Elze.* p. 142, pl. 14; *Gray, Gen. B.* i. p. 260; *Sclater, P. Z. S.* 1877, p. 100.

Arses chrysomelas, *Lesson, Traité*, p. 387; *Bp. Consp.* i. p. 326.

Monarcha cordensis, *Cub. & Reichen. J. f. O.* 1876, p. 320.

Adult male (New Ireland, *G. Brown*). General colour above bright orange-yellow, more brilliant on the head; mantle glossy black, the adjoining feathers of the upper interseapular region somewhat shaded with black; wings black, the lesser, median, and greater coverts orange-yellow, like the scapulars, the greater series black on the inner web; bastard wing and primary-coverts black; tail black; a narrow frontal line, lores, feathers in front of the eye, extending halfway above the latter, and below it upon the fore part of the ear-coverts, cheeks, and throat glossy blue-black; below the eye a white spot; sides of face, sides of neck, and underparts of body bright orange-yellow; thighs black; under wing-coverts rather paler yellow; quills black below, white along the edge of the inner web. Total length 5 inches, culmen 0·55, wing 2·9, tail 2·45, tarsus 0·7. (*Mus. Marquis of Tweeddale.*)

Hab. New Ireland.

23. *Piezorhynchus kordensis*.

Monarcha kordensis, *Meyer, Sitz. b. Akad. Wissensch. Wien*, lxi. p. 202; *Salvad. Ann. Mus. Civic. Genov.* vi. p. 310; *Gould, B. New Guinea*, part v.

Adult male. General colour above orange-yellow, the mantle only glossy blue-black; wing-coverts orange-yellow, like the back, the greater coverts with the inner web black, the outer ones black, tipped with yellow, the outermost entirely black, like the primary-coverts; quills black, the inner secondaries externally yellow, increasing in extent towards the back, where they are entirely yellow,

with black bases to the inner webs; tail black; head and neck fiery orange, including the sides of the neck and hinder part of ear-coverts; a frontal line, lores, feathers all round the eye and below it, cheeks, throat, and fore neck glossy blue-black, the feathers somewhat scaly in appearance; remainder of under surface rich orange-yellow; thighs black; under wing-coverts rather paler orange-yellow; edge of wing black; quills dusky blackish below, with pale yellow edgings to the inner webs. Total length 6 inches, culmen 0·65, wing 3·05, tail 2·5, tarsus 0·8. (*Mus. Civic. Genov.*)

Adult female. Different from the male. Upper surface of body olive-brown, with somewhat of a yellow tinge, the upper tail-coverts bright yellow; head, sides of face, and underparts orange-yellow, inclining to fiery orange on the head, which is somewhat mottled with dusky olive tips to the feathers; wing-coverts dull-brown, edged with yellow, very broadly on the median series; quills dull brown, edged with olive, the inner secondaries with yellow; tail brown, shaded with olive, especially on the outer webs. Total length 5·7 inches, culmen 0·6, wing 2·9, tail 2·5, tarsus 0·75. (*Mus. Civic. Genov.*)

Hab. Island of Misori, in the Bay of Geelvink.

a. ♂ ad. sk. Misori (*Von Rosenberg*). Leyden Museum [P.].

24. *Piezorhynchus aruensis*.

Monarcha chrysomela (*nee Garn.*), *Gray*, *P. Z. S.* 1858, p. 177, et 1861, p. 435; *id.* *B. New Guinea*, p. 30; *Finsch*, *New-Guinea*, p. 169; *Gray*, *Hand-l. B.* i. p. 320, no. 4805.

Monarcha aruensis, *Salvad. Ann. Mus. Civic. Genov.* vi. p. 309; *Sharpe*, *Journ. Linn. Soc.* xiii. p. 497.

Monarcha melanonota, *Sclater*, *P. Z. S.* 1877, p. 100; *Gould*, *B. New Guinea*, part v.

Adult male (type of species). Lower back, mantle, and scapulars black; rump and upper tail-coverts bright yellow; tail entirely black; wings black, with a large patch of yellow, formed by the least, median, and inner greater wing-coverts being entirely yellow, the outer greater coverts black, with a yellow tip; innermost secondaries broadly edged with yellow; crown of head and nape orange-yellow, the black feathers of the upper mantle adjoining having also slight yellow margins; a narrow frontal line, lores, feathers above and below the eye, cheeks and fore part of ear-coverts, and entire throat glossy blue-black; in front of the eye a patch of white; hinder part of ear-coverts, sides of neck, and entire under surface of body bright yellow; thighs black; under wing-coverts yellowish white, edge of wing black; quills dusky blackish below, edged with whitish along the inner web. Total length 5·4 inches, culmen 0·55, wing 2·65, tail 2·25, tarsus 0·65. (*Mus. Genov.*)

Adult female. General colour above olive-green, slightly yellower on the head and rump; wings and tail ashy brown, the feathers edged with olive-green; sides of face olive-green, the ear-coverts slightly more dusky; below the fore part of the eye a spot of white:

throat and breast dull yellow, washed with olive, the cheeks and chin dusky ash-colour; abdomen and under tail-coverts bright yellow, the flanks and thighs washed with olive-greenish; under wing-coverts pale yellow; bill bluish, the tip black; feet lead-colour; iris dark. Total length 5.9 inches, culmen 0.6, wing 2.65, tail 2.3, tarsus 0.65.

Obs. Count Salvadori having also lent me a pair of birds from New Guinea (Dorey ♂, Andai ♀), there can be no doubt that the New-Guinea bird, *M. melanotos*, Selater, is the same as the Aru-Island species, as already suggested by me (J. Linn. Soc. *t. c.*).

Hab. Aru Islands, New Guinea, Waigiou, Mysol.

| | | |
|--|---------------------------------------|---------------------------|
| <i>a, b.</i> ♂ ad.; <i>c, d.</i> ♀ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. |
| <i>e, f.</i> ♂ ad. sk. | Aru Islands (<i>Von Rosenberg</i>). | Leyden Museum [P.]. |
| <i>g.</i> ♂ ad. sk. | Waigiou. | A. R. Wallace, Esq. [C.]. |
| <i>h, i.</i> ♂ ad.; <i>k.</i> ♀ ad. sk. | Mysol. | A. R. Wallace, Esq. [C.]. |
| <i>l.</i> ♂ ad. sk. | Arafak Mountains, N.W. New Guinea. | Leyden Museum [P.]. |

62. MONARCHA.

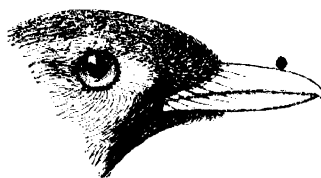
Type.

Drymophila, pt., *Temm. Pl. Col.* (1826, *see Sw.*).

Monarcha, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 254

(1826) *M. melanopsis*.

Monacha, *Swains. Monogr. Flycatchers*, p. 140 (c. 1838) *M. chrysomelas*



Head of *Monarcha melanopsis*.

Range. Australia, Papuan islands and Moluccas, Timor group, Mackenzie group.

Key to the Species.

- a.* Upper surface uniform, the mantle not differing from the crown in colour.
- a'.* Forehead and throat black.
 - a''.* Tail and wings not perceptibly darker than the upper surface; quills dusky brown, edged with grey, like the back; abdomen orange-buff or pale cinnamon *melanopsis*, p. 430.
 - b''.* Tail and wings black, in strong contrast to the back; quills black, without grey edging.
 - a'''.* Thighs black; breast and abdomen deep chestnut; the grey of the upperparts and of the chest very pale, *i. e.* light pearly grey: entire throat black *canescens*, p. 431.

- b''*. Thighs orange, like the rest of the under surface, only the chin and upper throat black; the lower throat grey, like the chest *frater*, p. 431.
- b'*. Forehead and throat light grey, like the rest of the upper surface, with sometimes a slight shade of blackish near the nostrils and base of chin *inornatus*, p. 431.
- b*. Upper surface not uniform; back white in male, as also the underparts; head all round, wings, and tail black: female black, the mantle, sides of neck, and fore neck white *godoffroyi*, p. 432.

1. *Monarcha melanopsis*.

Muscicapa melanopsis, *Vicill. N. Dict. d'Hist. Nat.* xxi. p. 450.

Monarcha carinata, *Vig. & Horsf. Tr. Linn. Soc.* xv. p. 255; *Gould, Syn. B. Austr.* pt. ii.; *Gray, Gen. B.* i. p. 260; *Gould, B. Austr.* fol. ii. pl. 95; *Reichenb. Vög. Neuhol.* pp. 99, 287; *Bp. Consp.* i. p. 326; *Finsch, Neu-Guinea*, p. 169; *Gould, Handb. B. Austr.* i. p. 262; *Gray, Hand-l. B.* i. p. 320, no. 4786; *Salvad. & D'Albert. Ann. Mus. Civic. Genov.* vii. p. 818; *Salvad. op. cit.* ix. p. 24; *Ramsay, Journ. Linn. Soc. N. S. W.* i. p. 391, ii. p. 182; *Sharpe, Journ. Linn. Soc.* xiii. p. 497.

Muscipeta carinata, *Sewatns. Zool. Illustr.* ser. 1, iii. pl. 116.

Drymophila carinata, *Temm. Pl. Col.* iii. pl. 418. fig. 2.

Monarcha inornata (*see Garn.*), *Gould, Syn. B. Austr.* part ii.

Monarcha melanopsis, *Salvin, Cat. Strickl. Mus.* p. 136.

Adult male. General colour above ashy grey; wing-coverts like the back; quills dusky brown edged with grey, the inner secondaries entirely grey like the back; tail ashy brown, washed with grey, a broad frontal band of black; round the eye a ring of black feathers: lores, feathers at base of bill, and entire throat black; ear-coverts hoary grey, extending forwards under and in front of the eye, and occupying the hinder cheeks and sides of neck, and then deepening into darker grey on the fore neck and chest, across which it forms a broad band: breast and remainder of under surface, including the under wing- and tail-coverts, light orange-buff; edge of wing black: quills ashy below, light fulvous along the edge of the inner web: "bill pearl-grey, with white margins; feet dull lead-colour or ashy; iris black or chestnut-brown" (*D'Albertis*). Total length 6·8 inches, culmen 0·7, wing 3·35, tail 2·9, tarsus 0·75.

Adult female. Differs from the male in wanting the black forehead and throat, all of these parts being entirely grey, with a whitish shade before the eye and at the angle of the mouth; wing-coverts and quills narrowly edged with ochraceous yellow. Total length 6·6 inches, wing 3·35, tail 2·85, tarsus 0·8.

Hab. Australia: S.E. New Guinea.

a. ♂ ad. st. Australia.

b. ♀ ad. st. Australia.

c. ♀ ad. sk. Port Moresby, S.E. New Guinea.

d. ♂ ad. sk. S.E. New Guinea.

J. Gould, Esq. [P.].

O. C. Stone, Esq. [C.].

Dr. James [C.].

2. *Monarcha canescens*.

Monarcha canescens, *Salvad. Ann. Mus. Civic. Genov.* vii. p. 191.

Adult male (type of species). General colour above light pearly grey; the sides of the face, feathers round the eye, sides of neck, and a broad band across the chest, somewhat more hoary and whitish grey than the breast; frontal band, throat, and a ring round the eye black; remainder of under surface of body orange-chestnut; thighs black, as are also the bases to some of the under tail-coverts; under wing-coverts and axillaries light chestnut, with more than the basal half ashy grey; small coverts near the edge of the wing black; wings above black, the greater coverts and primary-coverts tipped with pearly grey, some of the least ones entirely pearl-grey, as also are the inner, greater, and median coverts, and the innermost secondaries; tail blackish; "bill greyish pearl-colour, with whitish edges; feet dull bluish; iris black" (*D'Albertis*). Total length 6·4 inches, culmen 0·65, wing 3·4, tail 2·9, tarsus 0·7. (*Mus. Civic. Genov.*)

Hab. Cape York peninsula, N.E. Australia.

3. *Monarcha frater*.

Monarcha frater, *Selater, P. Z. S.* 1873, p. 691; *Salvad. Ann. Mus. Civic. Genov.* x. p. 132.

Adult male. General colour above light ashy grey, the least and inner median and greater coverts like the back; rest of the wing-coverts and quills black, the inner secondaries externally washed with ashy grey; tail black; a broad band of blue-black across the forehead; feathers round and in front of the eye hoary white, the sides of face, cheeks, sides of neck, throat, and chest lighter ashy grey than the back, the black colour confined to the chin and upper part of the throat, lores, and feathers at the angle of the mouth; rest of under surface of body rich cinnamon-buff, including the under wing-coverts and axillaries, the small coverts round the edge of the wing black; quills ashy black below, lighter and more grey along the edge of the inner web; "bill ashy; feet black; iris chestnut" (*D'Albertis*). Total length 6·4 inches, culmen 0·7, wing 3·35, tail 2·7, tarsus 0·7. (*Mus. Genov.*)

Hab. North-western New Guinea, Arfak Mountains.

4. *Monarcha inornatus*.

Muscicapa inornata, *Garn. Voy. Coquille, Zool.* i. p. 591, pl. 16. fig. 2. *Drymophila cinerascens*, *Tenn. Pl. Col.* iii. pl. 430. fig. 2.

Monarcha cinerascens, *Gray, Gen. B.* i. p. 269; *Bp. Conspectus* i. p. 326; *Gray, P. Z. S.* 1860, p. 351, et 1861, p. 435; *Wall. P. Z. S.* 1862, p. 341, 1863, p. 485; *Finsch. Neu-Guinea*, p. 169; *Gray, Hand-l. B.* i. p. 320, no. 4787.

Monarcha inornata, *Gray, P. Z. S.* 1858, p. 177, et 1861, p. 435; *id. Cat. B. New Guinea*, p. 29; *Finsch, Neu-Guinea*, p. 169; *Gray, Hand-l. B.* i. p. 320, no. 4788; *Salvad, P. Z. S.* 1878, p. 83.

Monarcha inornata, *Wall. P. Z. S.* 1863, p. 485.

Monarcha commutata, *Brügg. Abhandl. Nat. Ver. Brem.* v. p. 68.

Monarcha fulviventris, *Hartl. P. Z. S.* 1867, p. 830; *Gray, Hand-l. B. i.* p. 320, no. 4795.

Adult male. General colour above clear ashy grey, the least and innermost of the median and greater coverts like the back; rest of the coverts and quills blackish, edged with ashy grey, the inner secondaries more broadly; tail dusky blackish, washed with ashy grey, especially on the edges of the feathers; sides of head and neck, entire throat, and fore neck light ashy grey, rather paler than the upper surface; a slight blackish shade at the base of the nostrils and on the chin; rest of under surface bright orange-chestnut; thighs greyish, slightly washed with rufous; under wing-coverts grey, somewhat tinged with rufous; axillaries orange-chestnut, like the breast; quills ashy below, grey along the edge of the inner web; "bill pale lead-colour, the tips white; feet blue lead-colour; iris dark" (*Wallace, MS.*). Total length 7·3 inches, culmen 0·75, wing 3·3, tail 3, tarsus 0·75.

Adult female. Similar to the male, but duller in colour, being darker ashy grey on the upper surface and throat, the lower throat slightly washed with rufous, the belly being much paler chestnut; quills blackish brown, narrowly margined with pale rufous, as also are the greater coverts. Total length 6·6 inches, wing 3·05, tail 2·7, tarsus 0·7.

Hab. Timor group of islands; Sula Islands; Moluccas; Aru Islands.

| | | |
|---------------------|---------------|---------------------------|
| a. Ad. st. | Timor. | |
| b. Ad. sk. | East Timor. | A. R. Wallace, Esq. [C.]. |
| c, d. [♂ ♀] ad. sk. | Mysol. | A. R. Wallace, Esq. [C.]. |
| e, f. ♂ ♀ ad. sk. | Aru Islands. | A. R. Wallace, Esq. [C.]. |
| g. ♂ ad. sk. | Goram. | A. R. Wallace, Esq. [C.]. |
| h. ♂ ad. sk. | Ternate. | A. R. Wallace, Esq. [C.]. |
| i. Ad. sk. | Sula Islands. | A. R. Wallace, Esq. [C.]. |

5. *Monarcha godeffroyi*.

Monarcha godeffroyi, *Hartl. P. Z. S.* 1867, p. 829, pl. 38; *Gray, Hand-l. B. i.* p. 321, no. 4810.

Adult male (type of species). General colour above white, from the hind neck to the rump and including the scapulars; wings black, the quills browner; upper tail-coverts and tail black; head all round black, including the lower throat; sides of neck and rest of under surface, from the fore neck downwards, pure white; thighs and under tail-coverts black; under wing-coverts black; quills ashy blackish below, white along the inner edge of the primaries; "bill entirely blue; feet whitish blue; iris black" (*Kubary, MS.*). Total length 6·6 inches, culmen 0·75, wing 3·45, tail 3, tarsus 0·95. (*Mus. Godeffroy.*)

Adult female. Entirely black, excepting the hind neck and upper mantle, sides of neck, lower throat, and fore neck, which are pure white. Total length 6·2 inches, culmen 0·65, wing 3·1, tail 2·9, tarsus 1.

Young. Above brown, the head and hind neck ashy grey, the scapulars rufescent at the tips, the rump rufous, becoming paler and more fulvous on the upper tail-coverts; wing-coverts dusky brown, broadly edged externally with rufous-buff, becoming fulvous on the median and greater coverts; quills dark brown, externally edged with rufous, the primaries narrowly, the secondaries more broadly, the innermost of the latter edged and tipped with buff; tail-feathers ashy brown, narrowly edged with ochraceous brown and tipped with white, more broadly on the outer feathers; lores and a broad eyebrow rufous-buff; ear-coverts rather deeper rufous, shading on to the sides of the throat; under surface of body light cinnamon-rufous, inclining to fulvous on the throat and under tail-coverts; under wing-coverts light cinnamon, like the breast; quills light brown below, whitish along the inner web; "bill horn-colour, the point brown, under mandible paler; feet dirty white; iris black" (*Kubary, MS.*). Total length 6.6 inches, culmen 0.7, wing 3.25, tail 3, tarsus 1.

Hab. Island of Uap, Mackenzie group.

| | | |
|---------------------|----------------------------------|-------------------|
| <i>a.</i> ♂ ad. sk. | Island of Uap (<i>Kubary</i>). | Godeffroy Museum. |
| <i>b.</i> Juv. sk. | Island of Uap (<i>Kubary</i>). | Godeffroy Museum. |

63. PELTOPS.

| | Type. |
|--|-------------------------|
| Peltops, <i>Wagler, Isis</i> , 1829, p. 636 | <i>P. blainvillii</i> . |
| Erolla, <i>Lesson, Traité d'Orn.</i> , p. 260 (1831) | <i>P. blainvillii</i> . |
| Platystomus, <i>Suavins. Classif. B.</i> ii. p. 261 (1837) | <i>P. blainvillii</i> . |

Range. Confined to New Guinea, Mysol, and Waigiou.

1. *Peltops blainvillii*.

- Eurylaimus blainvillei*, *Garnot, Voy. de la Coquille, Zool.* i. p. 595, pl. 19, fig. 2; *Finsch, Neu-Guinea*, p. 160.
Peltops blainvillei, *Wagler, Isis*, 1829, p. 636; *Gray, Gen. B.* i. p. 66, pl. 22, fig. 2; *Bp. Consp.* i. p. 169; *Reichenb. Handb. Microp.* p. 59, pl. cccxli. figs. 3211, 3212; *Sclater, Journ. Linn. Soc.* ii. p. 160; *Gray, Cat. Mamm. &c. New Guinea*, p. 19; *id. P. Z. S.* 1861, p. 433; *Wallace, P. Z. S.* 1862, p. 165; *Gray, Hand-l. B.* i. p. 319, no. 4785; *Sclater, Ibid.*, 1872, p. 177; *id. P. Z. S.* 1873, p. 696; *Gould, Birds of New Guinea*, part 1; *Beccari, Ann. Mus. Civic. Genov.* vii. p. 708; *Salvad. op. cit.* ix. p. 23, x. p. 131.
Erolla blainvillei, *Less. Traité d'Orn.* p. 260.
Platystomus blainvillei, *Suavins. Classif. B.* ii. p. 261; *id. Nat. Hist. Flycatchers*, p. 245, pl. 31.

Adult. General colour above and below glossy black, with somewhat of a steel-green lustre; upper margin of eyelid and the ear-coverts white; on the interseapular region also a white patch; rump, upper and under tail-coverts, and vent bright crimson; thighs black; wings and tail black; under wing-coverts and axillaries pure white, as also the inner edges to the quills; "bill, feet, and

eyes black" (*D. Albertis*). Total length 7·2 inches, culmen 0·95, wing 3·85, tail 3, tarsus 0·55.

Hab. The same as that of the genus.

| | | |
|-------------------|-------------|---------------------------|
| <i>a.</i> Ad. sk. | New Guinea. | A. R. Wallace, Esq. [C.]. |
| <i>b.</i> Ad. sk. | Waigiu. | Purchased. |

64. POMAREA.

Pomarea, *Bp. C. R.* xxxviii. p. 650. Type.
P. nigra.

Range. Society Islands; Marquesas Islands.

Key to the Species.

- a.* Belly black *nigra*, p. 434.
b. Belly chestnut *castaneiventris*, p. 435.

1. Pomarea nigra.

Muscicapa nigra, *Sparrrn. Mus. Carls.* i. pl. 23; *Sunder. Crit. om. Sparrrn.* p. 6.

Luteous Flycatcher, *Lath. Gen. Syn.* ii. p. 342 (♀).

Society Flycatcher, *Lath. Gen. Syn. Suppl.* p. 174.

Muscicapa lutea, *Gm. S. N.* i. p. 944 (ex *Lath.*); *Forster, Descr. Anim.* p. 162.

Muscicapa maupitiensis, *Garn. Voy. Coquille, Zool.* i. p. 592.

Muscicapa pomarea, *Less. Man. d'Orn.* i. p. 193; *id. Voy. Coquille, Atlas*, pl. 18. figs. A, B, C.

Muscicapa atra, *Forster, Descr. Anim.* pp. 171, 172.

Monarcha nigra, *Gray, Gen. B.* i. p. 260; *Bp. Consp.* i. p. 326; *Peale, U.S. Expl. Exp.* p. 100; *Harth. Arch. f. Naturg.* 1852, p. 101; *Cassin, U.S. Expl. Exp.* p. 146; *Gray, Cat. B. Trop. Isl. Pacific Ocean*, p. 19; *Finsch u. Harth. Fauna Centralpolyn.* p. 90; *Gray, Hand-l. B.* i. p. 321, no. 4807.

Pomarea nigra, *Bp. C. R.* xxxviii. p. 650.

Monarcha mendozæ, *Harth. J. f. O.* 1854, p. 170; *Gray, Hand-l. B.* i. p. 321, no. 4808.

Young. General colour above brown, rather fulvescent on the head and mantle, more chocolate on the rump; wing-coverts and quills dull brown, edged with lighter brown than the back; tail-feathers dark brown, lighter brown on their margins; in front of the eye a large spot of dull white, as also the ring round the eye; sides of face and ear-coverts light brown, somewhat tinged with rufous; under surface of body buffy white, the sides of the body washed with rufous-brown and streaked with dark brown; under wing-coverts and axillaries light rufous-brown; quills ashy brown below, edged with buffy white along the inner web. Total length 1·6 inches, culmen 0·7, wing 3·4, tail 3, tarsus 1·15.

Adult female (?). Pure white, the tail also, the shafts partly brown; bastard wing and primary-coverts black, edged with white; primaries brown, broadly edged with white, and white at the base, increasing in extent on the secondaries, the innermost of which are white with only a mesial line of black; head and neck all round

black, extending upon the mantle, the feathers of which are mostly black broadly tipped with white; breast also black, some of the feathers edged with dull white; remainder of under surface, including the axillaries and tail-coverts, pure white; thighs black; under wing-coverts black, the lower ones tipped with white; quills for the most part white below, blackish towards their ends. Total length 6·5 inches, culmen 0·6, wing 3·5, tail 2·1, tarsus 1·05.

Adult male. Entirely black all over, slightly glossy, the breast somewhat browner, as also the inner webs of the quills; "bill pale bluish black; feet bluish black; iris bluish black" (*Förster*). Total length 7·5 inches, culmen 0·7, wing 3·7, tail 3·25, tarsus 1·1.

Hab. Society group of islands: Marquesas group.

| | | |
|---------------------|--------------------|---------------------|
| <i>a.</i> ♂ ad. sk. | Otahiti. | Purchased. |
| <i>b.</i> Ad. sk. | Society Islands. | Zoological Society. |
| <i>c.</i> Ad. sk. | Marquesas Islands. | Purchased. |

2. *Pomarea castaneiventris*. (Plate XI. fig. 2.)

Monarcha castaneiventris, *Ferr. Rev. et Mag. de Zool.* 1858, p. 304; *Cray, B. Trop. Isl. Pacif. Ocean*, p. 19; *id. Hand-l. B. i.* p. 320, no. 4793.

Adult male (type of species). General colour above glossy black; wings black, the quills somewhat browner; tail black; sides of face, sides of neck, throat, and fore neck glossy black like the upper surface; remainder of under surface of body chestnut; under wing-coverts and axillaries chestnut, those near the edge of the wing black; quills ashy black below, whitish along the edge of the inner web. Total length 7 inches, culmen 0·7, wing 3·6, tail 3, tarsus 0·75.

Hab. Oceania.

| | | |
|-------------------|------------|---------------------------------|
| <i>a.</i> Ad. sk. | [Oceania.] | M. Verreaux. (Type of species.) |
|-------------------|------------|---------------------------------|

65. STOPAROLA.

Type.

Stoparola, *Blyth, J. A. S. B.* xvi. p. 125 (1845) *S. melanops*.

Eumyias, *Cabanis, Mus. Hein.* Th. i. p. 53 (1850) *S. indigo*.

Glaucomyias, *Cabanis, Mus. Hein.* Th. i. p. 53, note (1850) *S. melanops*.

Range. Indian peninsula and Ceylon, ranging eastwards into China and the Burmese countries; southwards, through the Malayan peninsula to the Sunda Islands and the Philippines.

Key to the Species.

a. With the base of the tail white.

a'. Upper tail-coverts black; upper surface bright blue; the forehead, eyebrow, and throat bright cobalt; under wing-coverts white . . . *indigo*, p. 436.

b. Upper tail-coverts dull blue, like the back, the eyebrow, forehead, and throat scarcely lighter; under wing-coverts ashy brown, washed with blue *albicaudata*, p. 437.

- b. With a great deal of white on the tail, reaching nearly to the end of the feathers, the four centre feathers only without any white: size very large; wing 3·45 inches; legs pale..... *concreta*, p. 437.
- c. With no white base to the tail.
- c'. Under tail-coverts blue or green, with broad white edgings.
- a". No black spot on chin; feathers at base of nostrils black, as well as a line across the base of the forehead: size larger; wing 3·45 inches *melanops*, p. 438.
- b". Chin black, and also across the base of the forehead: size smaller; wing 3·05 inches. *thalassinoides*, p. 439.
- d'. Under tail-coverts white.
- c". General colour dull verditer-blue, brighter on the forehead and eyebrow; ear-coverts dull verditer-blue; throat and fore part of cheeks with silvery tips..... *panayensis*, p. 440.
- d". General colour dull greyish blue, the eyebrow, forehead, and chin brighter cobalt; ear-coverts dull grey, with a slight greenish wash *sordida*, p. 440.

1. *Stoparola indigo*.

Muscicapa indigo, *Horsf. Tr. Linn. Soc.* xiii. p. 146; *id. Zool. Research. in Java, Birds*, pl. 7.

Hypothymis indigo, *Boie, Isis*, 1828, p. 973; *Bp. Consp.* i. p. 320; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 291; *Sharpe, Tr. Linn. Soc. new series*, i. p. 326.

Niltava indigo, *Grey, Gen. B.* i. p. 264; *id. Hand-l. B.* i. p. 325, no. 4893.

Stoparola indigo, *Blyth, J. A. S. B.* xvi. p. 127; *id. Cat. B. Mus. A. S. B.* p. 174.

Adult male. General colour above indigo-blue, rather greener towards the back and rump; forehead and feathers over the eye brighter cyaneous or cobalt; wing-coverts like the back, the least ones slightly tinged with bright cobalt; greater coverts and quills black, externally margined with indigo-blue, more broadly on the secondaries; upper tail-coverts black, washed with blue at the tip; tail-feathers black, externally edged with blue, all but the two centre feathers white at the base; a narrow frontal line, feathers in front of and round the eye, chin, fore part of cheeks and of ear-coverts black, the remainder of the ear-coverts deep indigo like the sides of the neck; throat brighter blue, more cobalt; fore neck and breast indigo, becoming paler on the flanks; abdomen and under tail-coverts white; quills blackish below, white along the edge of the inner web; thighs dull blue, with hoary edges; under wing-coverts white, the axillaries washed with bluish, the edge of the wing bright blue. Total length 5·6 inches, culmen 0·45, wing 2·9, tail 2·35, tarsus 0·65.

A young female bears traces of a robin-like plumage, the rump-feathers having subterminal spots of pale ochre; breast and abdo-

men mottled with white feathers, each of which is edged with dusky brown.

Hab. Java.

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| a, b. ♂ ad. sk. | West Java. | A. R. Wallace, Esq. [C.]. |
| c. ♀ imm. sk. | West Java. | A. R. Wallace, Esq. [C.]. |

2. *Stoparola albicaudata*.

Muscicapa albicaudata, Jerdon, *Madr. Journ.* xi. p. 16; *id. Illustr. Ind. Orn.* pl. 14.

Niltava albicaudata, Gray, *Gen. B.* i. p. 264; *id. Hand-l. B.* i. p. 326, no. 4894.

Stoparola albicaudata, Blyth, *J. A. S. B.* xvi. p. 125; *id. Cat. B. Mus. A. S. B.* p. 175; *Hume, Nests & Eggs Ind. B.* p. 210; *Fairb. Str. F.* 1877, p. 402.

Hypothymis albicaudata, Bp. *Consp.* i. p. 320; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 292.

Eumyias albicaudata, *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 422; *Jerd. B. Ind.* i. p. 464; *Hume, Str. F.* 1876, p. 396.

Adult (type of species). General colour above deep indigo-blue, with a slight eyebrow of lazuline blue; rump slightly shaded with brighter blue; wing-coverts brown, externally lazuline blue; primary-coverts and quills dark brown, edged on the outer web with blue; tail dark brown, the feathers margined with greenish blue and white at the base of all but the two centre ones, which only have the shaft white; in front of the eye a black spot; under surface of body indigo-blue, inclining to greyish blue on the lower flanks and abdomen; the lower abdomen and vent slightly whitish; under tail-coverts dusky, with whitish edges to the feathers; under wing-coverts ashy brown, edged with blue, the edge of the wing brighter blue; "bill black; legs black; irides dark brown" (*Jerdon*). Total length 6 inches, culmen 0.45, wing 3.05, tail 2.6, tarsus 0.75.

Hab. Southern India.

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| a. Ad. st. | Madras. | Dr. Jerdon [P.]. (Type of species.) |
| b. Ad. sk. | Madras. | Dr. Jerdon. |

3. *Stoparola concreta*.

Muscicapa concretus, Müller, in *Van der Hoeven's Tijdschr.* 1835, p. 351.

Hypothymis concreta, Bp. *Consp.* i. p. 320.

Myiolestes concreta, Bp. *Consp.* i. p. 358.

Adult male (type of species). General colour above dark blue, the wing-coverts like the back, the greater coverts browner, with a few buff spots at the tips (remains of young plumage); quills black, externally washed with deep blue like the back; tail dusky black, slightly washed with blue on the edges, the four outer tail-feathers for the most part white, increasing in an oblique manner on the inner feathers, so as to reach nearly to the end of the inner web in

Glancomyias thalassoides, *Cab. Mus. Hein.* Th. i. p. 53, note; *Rp. C. R.* xxxviii. p. 651.

Niltava thalassoides, *Gray, Hand-l. B.* i. p. 326, no. 4896.

Stoparola thalassinoides, *Saleud. Ucc. Born.* p. 132; *Sharpe, Ibis*, 1878, p. 416.

Adult male. General colour verditer-blue, inclining to silvery blue on the forehead, eyebrow, and upper tail-coverts; wing-coverts a little brighter than the back, and inclining to silvery blue near the bend of the wing; quills black, externally bright cobalt, the inner secondaries almost entirely of this colour; tail deep blue, black along the shaft and on the inner web; sides of face and throat silvery cobalt; a narrow frontal line, feathers in front of and below the eye, and chin black; rest of under surface of body dull verditer-blue, a little more greenish on the abdomen and sides of body; the under tail-coverts obscurely edged with white; under wing-coverts like the breast; quills below blackish; "iris black" (*Doria*). Total length 5·6 inches, culmen 0·45, wing 3·05, tail 2·4, tarsus 0·6.

Hab. Sumatra, Borneo, Malayan peninsula.

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| a. Ad. sk. | Kessang, Malacca. | M. A. Bouvier. |
| b. Ad. sk. | Borneo. | Hugh Cuming, Esq. |
| c. Ad. sk. | Sarawak. | Henry Everett, Esq. [C.]. |

6. *Stoparola panayensis*.

Eumyias panayensis, *Sharpe, Tr. Linn. Soc.* new series, i. p. 326.

Adult (type of species). General colour above dull verditer-blue, rather brighter on the forehead and over the eye, forming an indistinct eyebrow; least wing-coverts resembling the back, the greater series and the quills blackish brown, externally edged with dull verditer-blue; tail-feathers blackish, also edged with verditer on the outer web; sides of face dull verditer, as also the whole of the throat and breast, shading off into white on the abdomen and flanks, the latter washed with blue; fore part of the cheeks and throat slightly varied with silvery tips to the feathers; thighs and under wing- and tail-coverts buffy white; bill black; feet dark brown. Total length 6 inches, culmen 0·55, wing 2·95, tail 2·45, tarsus 0·7. (*Mus. J. B. Steere*.)

Hab. Island of Panay, Philippines.

7. *Stoparola sordida*.

Stoparola melanops, *Layard, Ann. N. H.* xiii. p. 127 (*nec* V.).

Glancomyias sordida, *Wald. Ann. & Mag. N. H.* ser. 4, v. p. 218;

Hume, Str. F. 1875, p. 401.

Niltava ceylonensis, *Gray, Hand-l. B.* i. p. 326, no. 4897 (*descr. nullâ*).

Eumyias sordida, *Holdsw. P. Z. S.* 1872, p. 441; *Legge, Ibis*, 1874, p. 18; *Sharpe, Tr. Linn. Soc.* new series, i. p. 326.

Adult male. General colour above dusky grey, with somewhat of

a wash of greenish grey, rather more distinct on the head; forehead and feathers over the eye cobalt; wing-coverts like the back, the outer ones of the lesser series tinged with brighter cobalt; quills and greater coverts dusky brown, externally edged with greyish blue, much broader on the secondaries, where it has somewhat of a glaucous tint; tail-feathers brown, slightly washed with greyish blue on the edges; sides of face, throat, breast, and sides of body dusky grey, like the upper surface; the abdomen and under tail-coverts whitish, the thighs dusky grey tipped with white; a narrow frontal line, feathers in front of and below the eye, as well as those at angle of mouth and base of chin, black; the sides of the face and upper throat slightly washed with cobalt; under wing-coverts white, the edge of the wing light bluish; quills dull ashy brown below, dull brownish along the inner web; "bill black; legs and feet blackish lead-colour; iris dull reddish brown" (*Legge, MS.*). Total length 5·8 inches, culmen 0·5, wing 3·05, tail 2·6, tarsus 0·75.

Young. Upper surface and wing-coverts brown, with buff tips to the feathers; the chin is buff, and the lower surface, as in the adult, mingled with yellowish-grey feathers. (*Legge.*)

Hab. Ceylon.

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|----------------------|-------------------------------|---------------------------|
| <i>a.</i> ♂ ad. sk. | Knauckles, Ceylon, 4500 feet, | Capt. W. Vincent Legge |
| | Nov. 25, 1870. | [P.] |
| <i>b.</i> Ad. sk. | Kandy hills. | A. Whyte, Esq. [C.] |
| <i>c, d.</i> Ad. sk. | Ceylon. | Hugh Cuming, Esq. |
| <i>e.</i> Ad. sk. | Ceylon. | Marquis of Tweeddale [P.] |

66. SIPHIA.

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|--|-------------------------|
| | Type. |
| <i>Siphia, Hodgson, Ind. Review, i. p. 651 (1837)</i> | <i>S. strophliata.</i> |
| <i>Dinorpha, Hodgs. J. A. S. B. x. p. 29 (1841)</i> | <i>S. strophliata.</i> |
| <i>Cyornis, Blyth, J. A. S. B. xii. p. 941 (1842)</i> | <i>S. rubeculoides.</i> |
| <i>Ochromela, Blyth, J. A. S. B. xvi. p. 128 (1847)</i> | <i>S. nigrorufa.</i> |
| <i>Schwaneria, Bp. Rev. et Mag. de Zool. 1857, p. 51</i> | <i>S. ceruleata.</i> |
| <i>Menetica, Cab. J. f. O. 1866, p. 292</i> | <i>S. strophliata.</i> |



Leg of *Siphia banyumas*.

Range. India and Ceylon, ranging through the Burmese countries to Eastern China and down the Malayan peninsula to the Sunda Islands, the Philippines, and Timor group.

Key to the Species.

- a.* Above blue.
 - a'.* Entire throat and breast blue.
 - a'.* Belly and under tail-coverts orange-rufous *hyacinthina* ♂, p. 443.

- b''*. Belly and under tail-coverts whitish.
a'''. Under wing-coverts white; throat and breast deep blue *pallidipes* ♂, p. 444.
b'''. Under wing-coverts fulvous; throat and breast light greyish blue *unicolor* ♂, p. 445.
b'. Throat only blue; fore neck and chest orange-rufous.
c''. Throat blue-black, like the ear-coverts. *rubeculoides* ♂, p. 446.
d''. Throat brighter blue than the ear-coverts *elegans* ♂, p. 447.
c'. Throat orange-rufous, with only a black or blue-black chin-spot.
e'. Legs dark brown or blackish in skin.
e'''. General colour above light greyish blue; below light orange-rufous, fading off into buffy white on the lower abdomen and under tail-coverts; chin-spot very small *tickelliae* ♂, p. 448.
d'''. General colour above dark blue; throat deep orange or chestnut; chin-spot large.
a⁴. Orange-colour of the breast extending upon the abdomen and sides of vent, often upon the under tail-coverts. *banyumas* ♂, p. 449.
b⁴. Orange-colour of the breast not extending upon the abdomen, which is pure white, as also the under tail-coverts *philippinensis* ♂, p. 450.
c⁴. Orange-colour confined to the throat and fore neck; the entire breast, abdomen, and under tail-coverts pure white. *sumatrensis* ♂, p. 451.
f''. Legs pale yellowish in skin. *caeruleata* ♂, p. 451.
d'. Throat entirely orange, with no chin-spot.
g'. Lores black.
e'''. With a conspicuous superciliary mark of bright blue.
d⁴. With a bright blue shoulder-spot; rump and upper tail-coverts brighter blue than the back.
a⁵. Upper surface dark ultramarine; eyebrow of rich blue, reaching to the hind neck; ear-coverts black *beccariana* ♂, p. 452.
b⁵. Upper surface greenish blue, the head and ear-coverts like the back; superciliary streaks not reaching beyond the ear-coverts *turcosa* ♂, p. 453.
c⁴. No bright blue shoulder-spot; rump and upper tail-coverts uniform with the rest of the back; legs pale *magnirostris* ♂, p. 453.
f'''. No superciliary streak of bright blue, the whole upper surface being dark grey; legs pale *rufigula* ♂, p. 454.

- h''*. Lores white.
g'''. Ear-coverts dark, like the head; no perceptible light eyebrow.
f¹. Abdomen and under tail-coverts orange-buff *bangumai* ♀, p. 450.
g¹. Abdomen and under tail-coverts white *philippinensis* ♀, p. 450.
h'''. Ear-coverts light blue, like the upper surface; frontal and superciliary line rather brighter blue. *tickelliae* ♀, p. 448.
b. Above orange-rufous; head black; tail entirely rufous; wings black; entire under surface orange-rufous *nigrorufa*, p. 455.
c. Above olive-brown or greyish olive.
e'. Tail black; forehead white; throat black; breast grey; on the lower throat a large orange-chestnut spot *strophiala*, p. 455.
f'. Tail blue.
i'. Ear-coverts and eyelid slaty brown, like the upper surface; below uniform orange-rufous from chin to under tail-coverts *hyacinthina* ♀, p. 444.
k'. Ear-coverts and eyelid rufous; below bright orange-rufous, the lower abdomen whitish *caruleata* ♀, p. 451.
g'. Tail rufescent.
l'. Throat and chest orange-rufous *rubeuoloides* ♀, p. 446.
m''. Throat and chest ashy-white.
i'''. Tail-feathers rufous, the outer webs ashy brown *ruficauda*, p. 457.
k'''. Tail-feathers brown, washed with rufous on the outer web *olivacea*, p. 457.

1. *Siphia hyacinthina*.

Muscicapa hyacinthina, *Temm. Pl. Col.* iii. pl. 30; *Finsch, Neu-Guinea*, p. 168.

Niltava hyacinthina, *Gray, Gen. B.* i. p. 264.

Cyanis hyacinthina, *Bp. Consp.* i. p. 358; *Wall. P. Z. S.* 1863, p. 485.

Niltava hyacinthina, *Gray, Hand-l. B.* i. p. 325, no. 4881.

Adult male. General colour above dull blue, slightly brighter on the upper tail-coverts; wings rather brighter and more ultramarine, the least series especially; quills blackish, blue externally; tail dull blue on the outer webs, dusky on the inner webs, the two centre feathers dull blue entirely; forehead and feathers over the eye brighter blue than the rest of the upper surface; a narrow frontal line, lores, and feathers in front of the eye black; ear-coverts, cheeks, throat, and fore neck blue-black, the latter rather brighter blue; rest of under surface entirely orange-rufous; thighs blue, tipped with orange; under wing-coverts and axillaries like the breast, the edge of the wing blue; quills dusky below, greyish along the inner web. Total length 6·7 inches, culmen 0·55, wing 3·4, tail 2·8, tarsus 0·9.

Adult female. Different from the male. Above olivaceous brown, the least and median wing-coverts uniform with the back; quills dark brown, these and the greater coverts edged with fulvous brown; upper tail-coverts and tail-feathers dull blue, the latter dusky on the inner webs; ear-coverts olivaceous brown, with whitish shaft-lines; lores dull rufous; cheeks and entire under surface of body deep orange-rufous or orange-chestnut, rather paler on the under wing-coverts and axillaries; thighs pale orange. Total length 6·6 inches, wing 3·4, tail 2·7, tarsus 0·8.

Young. Like the female, but more ashy, the feathers of the back edged with black; below orange, mottled with dusky-blackish edges to the feathers, these edgings wanting on the under wing- and tail-coverts.

Hab. Timor group of islands.

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|--------------------------|----------------|---------------------------|
| <i>a, b.</i> ♂ ♀ ad. st. | Timor. | Leyden Museum. |
| <i>c.</i> ♀ ad. sk. | Timor. | Purchased. |
| <i>d, e.</i> ♂ ♀ ad. sk. | E. Timor. | A. R. Wallace, Esq. [C.]. |
| <i>f.</i> ♀ juv. sk. | E. Timor. | A. R. Wallace, Esq. [C.]. |
| <i>g.</i> ♀ ad. sk. | Semao, Timor. | A. R. Wallace, Esq. [C.]. |
| <i>h.</i> ♂ ad. sk. | Timor Coupang. | A. R. Wallace, Esq. [C.]. |

2. *Siphia pallidipes*.

Muscicapa pallipes, *Jerd. Madr. Journ.* xi. p. 15.

Niltava pallipes, *Gray Gen. B.* i. p. 264; *id. Hand-l. B.* i. p. 325, no. 4883.

Cyornis pallipes, *Blyth, Cat. B. Mus. A. S. B.* p. 338; *Bp. Consp.* i. p. 320; *Jerd. B. Ind.* i. p. 469; *Blyth, Ibis*, 1866, p. 372; *Fairbank, Str. F.* 1876, p. 257; *Hume, t. c.* p. 397.

Adult male. General colour above dull blue, rather brighter on the lower back and rump, and inclining to cobalt on the forehead and eyebrow; wing-coverts blue, the least series brighter and more cobalt; quills blackish, externally dull blue; tail-feathers blue, dusky on their inner webs; lores and feathers in front of the eye black; sides of face, throat, and breast deep blue, brighter on the latter; rest of under surface of body pure white, shaded with ashy on the upper breast, the flanks bluish grey; thighs dull blue; under wing-coverts and axillaries pure white, the edge of the wing blue; bill black; "feet pale whitish flesh-colour, whitish brown, bluish white, or leaden grey; iris brown" (*Hume*). Total length 5·7 inches, culmen 0·6, wing 2·9, tail 2·5, tarsus 0·75.

Hab. Southern India.

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|---------------------|--------|------------------------------------|
| <i>a.</i> ♂ ad. sk. | Coorg. | Secretary of State for India [P.]. |
| <i>b.</i> Ad. st. | India. | J. R. Reeves, Esq. [P.]. |

3. *Siphia unicolor*.

Cyornis unicolor, *Blyth, J. A. S. B.* xii. pp. 941, 1007; *id. Cat. B. Mus. A. S. B.* p. 173; *Bp. Consp.* i. p. 320; *Jerd. B. Ind.* i. p. 465; *Hume, Str. F.* 1875, p. 401, 1876, p. 398, 1877, p. 489; *Sharpe, Ibis*, 1878, p. 418; *Gedw.-Austin, J. A. S. B.* 1878, p. 15.

Niltava unicolor, *Gray, Gen. B. i. p. 264; id. Hand-l. B. i. p. 326, no. 4886.*

Cyornis cyanopolia, *Blyth, Ibis, 1870, p. 165 (ex Boie MS. in Mus. Lugd.)*; *Salvad. Ucc. Born.* p. 132.

Muscicapa infuscata, *Blyth, l. c. (ex Müller MS. in Mus. Lugd.)*.

Adult male. General colour above pale smalt-blue, brighter and more cobalt on the rump, and richer blue on the under tail-coverts; forehead and over the eye bright cobalt, as also the feathers round the eye; lores blue-black; sides of face deep blue, lighter under the eye and on the fore part of the cheeks; wing-coverts bright blue, the greater series and the quills blackish on the inner webs, bright blue externally; tail deep blue, all but the two centre feathers blackish on the inner web; under surface of body light blue, silvery on the throat, the centre of the abdomen and the under tail-coverts whitish; under wing-coverts yellowish fawn-colour, as also the inner edge of the quills below; edge of the wing blue; "bill and legs black" (*Jerdon*). Total length 6 inches, culmen 0·5, wing 3·15, tail 2·8, tarsus 0·7. (*Mus. H. J. Elwes*.)

Adult female. General colour above dark ashy brown, the least wing-coverts a little more ashy than the back; remainder of the wing-coverts and quills dark brown, externally margined with pale rufous-brown; upper tail-coverts light rufous-brown, as also the tail-feathers, which are internally dusky brown; lores and feathers round the eye fulvescent; ear-coverts and sides of face and neck dark ashy brown, with hair-like shaft-lines of whitish on the ear-coverts; chin and throat pale rufous, shading off on the fore neck, which is ashy brown, as also the breast; abdomen dull whitish; sides of body and under tail-coverts fulvescent brown, the latter clearer buff; thighs dark brown; under wing-coverts and axillaries brownish buff; quills dark brown below, rufescent along the edge of the inner web. Total length 6·2 inches, culmen 0·55, wing 3·1, tail 2·6, tarsus 0·65.

Young male. Mottled all over with ochraceous spots, margined with blackish, the wings and tail blue.

Hab. Eastern Himalayas, extending to the Malayan peninsula, Java (*Mus. Lugd.*), and Borneo.

| | | |
|-------------------|---------------------|------------------------------|
| a. ♂ ad. sk. | Sikkim, April 1873. | L. Mandelli, Esq. [P.] |
| b. ♀ ad. sk. | Sikkim, Nov. 1873. | L. Mandelli, Esq. [P.] |
| c. Ad. sk. | Sikkim. | Capt. C. H. T. Marshall [P.] |
| d. Ad. sk. | Kessang, Malacca. | M. A. Bouvier. |
| e, f. ♂ ♀ ad. sk. | Sarawak, Borneo. | Henry Everett, Esq. [C.] |
| g. Juv. sk. | Sarawak, Borneo. | Henry Everett, Esq. [C.] |

4. *Siphia rubeculoides*.

Phoenicura rubeculoides, *Vigors, P. Z. S. 1831, p. 35; Gould, Cent.*

Himal. B. pl. 25, fig. 1.

Niltava brevipes, *Hodgk. Ind. Review, i. p. 659.*

Muscicapa rubecula, *Swains. Monogr. Flyc. p. 221, pl. 27.*

Cyornis rubeculoides, *Blyth, J. A. S. B. xii. p. 941; id. Cat. B. Mus.*

A. S. B. p. 173; Bp. Consp. i. p. 320; Horsf. & Moore, Cat. B.

Mus. F. I. Co. ii. p. 289; *Jerd. B. Ind.* i. p. 463; *Blyth, Ibis*, 1866, p. 371; *Hollos. P. Z. S.* 1872, p. 412; *Blyth & Wald. B. Burm.* p. 103; *Hume, Nests and Eggs Ind. B.* p. 211; *id. Str. F.* 1875, p. 101; *Brooks, t. c.* p. 235; *Jerd. B. Ind.* 2nd ed. i. p. lxxii; *Blanford, Str. F.* 1877, p. 484; *Hume & Davison, Str. F.* 1878, p. 227.
Chaitaris (Niltava) rubiculoides, *Hodgk. Icon. incl. Passeres*, pl. 212 (*Hodgk. nos.* 137, 138); *id. in Gray's Zool. Misc.* p. 84.
Niltava rubiculoides, *Gray, Gen. B.* i. p. 264; *id. Cat. Mamm. &c. Nepal Coll. Hodgk.* p. 90 (1846); *id. Hand-l. B.* i. p. 325, no. 4878.
Erythrosterina rubicula, *Bp. Consp.* i. p. 318.
Cyornis elegans, *Hume, Str. F.* 1874, p. 475.

Adult male. General colour above deep blue, the wing-coverts like the back, the lesser series brighter cobalt, showing a bright shoulder-spot: quills and tail-feathers dusky brown, externally blue like the back, the centre tail-feathers and innermost secondaries entirely blue; forehead brighter cobalt, extending backwards over the eyes: a narrow frontal line and feathers in front of and below the eye black; ear-coverts, cheeks, and throat dark blue: fore neck and breast bright orange: rest of under surface pure white, the sides washed with orange-buff, the long flank-feathers white, somewhat overshadowing the rump; thighs blue, with white edges; sides of upper breast blue; under wing-coverts and axillaries white, the edge of the wing blue; quills dusky brown below, ashy along the edge of the inner web; "bill black; inside of mouth blackish (bluish fleshy in the ♀); legs pinkish brown, claws the same; iris dark hazel-brown; eyelids bluish grey" (*Oates*). Total length 5.2 inches, culmen 0.5; wing 2.9, tail 2.35, tarsus 0.65.

Adult female. General colour above ashy brown washed with olive, the upper tail-coverts rufous-brown; wing-coverts like the back, the greater series and the quills sepia-brown, externally pale rufescent brown; tail light rufous brown, the inner webs of the feathers pale brown: a narrow frontal line and lores rufous-buff; over the eye a faint shade of greyish; sides of face pale ashy brown, with lighter shaft-streaks; throat and breast orange-buff, paler on the former; remainder of under surface white, the sides of the body washed with fulvous; thighs ashy brown, with whitish tips to the feathers; under wing-coverts buff with a slight shade of orange, some of the axillaries silky white.

Young. Robin-like. Olive-brown, mottled with streaks of golden buff to the feathers of the upper surface, which have also black margins; wing-coverts blackish, broadly edged and tipped with golden buff; quills brown, washed externally with olive-brown; tail-feathers olive-brown, strongly washed with golden brown on their edges; breast pale orange-buff, mottled with dusky edgings and lines on the feathers: rest of under surface whitish.

Hab. India, Burmese countries, and Ceylon.

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| <i>a.</i> ♂ ad. sk. | Madras. | Dr. Jerdon [P.]. |
| <i>b.</i> ♂ ad. sk. | Madras. | Rev. H. H. Baber [P.]. |
| <i>c.</i> ♂ ad. sk. | N.W. Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>d, c.</i> ♂ ad. sk. | Between Simla and Mussoorie. | Capt. Stackhouse Pinwill [P.]. |

| | | |
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| <i>f, g.</i> Juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>h, i.</i> ♂ ad.; <i>k-n.</i> ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>o.</i> ♂ ad. st. | Behar. | B. H. Hodgson, Esq. [P.]. |
| <i>p, q.</i> ♂ ♀ ad. sk. | Darjiling. | J. Fotheringham, Esq. [P.]. |
| <i>r.</i> Juv. sk. | Darjiling. | J. Fotheringham, Esq. [P.]. |
| <i>s.</i> ♀ ad. sk. | Upper Burmah, Jan. 16, 1858. | Dr. Anderson [C.]. |
| <i>t.</i> ♂ ad. sk. | Pegu. | W. T. Blanford, Esq. [P.]. |
| <i>u, v.</i> ♂ ♀ ad. sk. | Lower Pegu (<i>Eugene Oates</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>w.</i> ♀ ad. sk. | Tenasserim. | J. C. D. Packman, Esq. [P.]. |

5. *Siphia elegans*.

Muscicapa elegans, *Temm. Pl. Col.* iii. pl. 596. fig. 2.

Muscicapa cantatrix ♀, *Temm. Pl. Col.* iii. pl. 225. fig. 2.

Niltava elegans, *Gray, Gen. B.* i. p. 264; *Gray, Hand-l. B.* i. p. 326, no. 4805.

Cyornis elegans, *Bp. Consp.* i. p. 320; *Walden, Ibis*, 1872, p. 373; *Salvad. Ucc. Born.* p. 130; *Walden, Ibis*, 1877, p. 316; *Brüggem. Abhandl. nat. Ver. Bremen*, v. p. 458.

Cyornis baccariana, *Blyth, Ibis*, 1870, p. 165 (*nec Salvad.*).

Cyornis banyumas, *Tweedd. P. Z. S.* 1878, p. 615 (♀).

Adult male. General colour above bright blue, inclining to cobalt on the rump and upper tail-coverts; forehead and eyebrow distinctly richer blue than the rest of the head; least and median wing-coverts bright ultramarine, contrasting with the back, the rest of the wing-coverts and quills blackish, externally rich blue, the margins to the primaries rather narrow; two centre tail-feathers rich ultramarine, the others black, externally blue; lores blackish; ring round the eye and ear-coverts deep blue; throat bright blue, contrasting with the sides of the face, and of about the same hue as the eyebrow; lower throat and fore neck bright orange, some of the feathers with a narrow edging of blue; rest of under surface of body white, with a fulvous tint on the flanks, which are also slightly shaded with blue; sides of the upper breast and edge of the wing rich blue, the axillaries greyish; thighs blue, with whitish edgings; quills dusky brown below, lighter along the edge of the inner web; bill black; legs lead-colour; iris chocolate. Total length 5·7 inches, culmen 0·55, wing 2·9, tail 2·3, tarsus 0·7. (*Mus. Marquis of Tweeddale*.)

Hab. Malacca, Sumatra, Java, Borneo, Palawan.

| | | |
|---------------------|-------------------|---------------------------|
| <i>a.</i> ♀ ad. sk. | W. Java. | A. R. Wallace, Esq. [C.]. |
| <i>b.</i> ♂ ad. sk. | Kessang, Malacca. | M. A. Bouvier. |

6. *Siphia tickellæ*.

Muscicapa hyacintha, *Tickell, J. A. S. B.* ii. p. 574.

Muscicapa banyumas, *Jerd. Madr. Journ.* xi. p. 15 (*nec Horsf.*).

- Cyornis banyumas* (*see Horsf.*), *Blyth, J. A. S. B.* xvi. p. 941; *id. Cat. B. Mus. A. S. B.* p. 173; *Jerd. B. Ind.* i. p. 466.
- Cyornis tickelliae*, *Blyth, J. A. S. B.* xii. p. 941; *Jerd. B. Ind.* i. p. 467; *Gray, Cat. Hodys. Drawings*, p. 48 (1863); *Lloyd, Ibis*, 1872, p. 197; *Hume, Str. F.* 1873, p. 436; *id. Nests and Eggs Ind. B.* p. 212; *Ball, S. F.* 1874, p. 405; *Butler, S. F.* 1875, p. 468; *Blyth & Wald. B. Burm.* p. 103; *Fairbank, Str. F.* 1876, p. 257; *id. S. F.* 1877, p. 402; *Hume, S. F.* 1878, p. 229.
- Niltava tickelliae*, *Gray, Gen. B.* i. p. 264; *id. Hand-l. B.* i. p. 325, no. 4882.
- Cyornis elegans*, *Blyth, Cat. B. Mus. A. S. B.* p. 173 (*see Temm.*).
- Cyornis jerdoni*, *Blyth, Ibis*, 1866, p. 371; *Holdsw. P. Z. S.* 1872, p. 442.
- Niltava jerdoni*, *Gray, Hand-l. B.* i. p. 325.

Adult male. General colour above light blue, the least wing-coverts rather brighter and more cobalt; forehead brighter cobalt, extending slightly backwards over the eye; a narrow frontal line and space in front of the eye blue-black; cheeks, ear-coverts, and a narrow line across the chin at the base of the bill dark blue, the ear-coverts strongly washed with lighter blue; quills and tail-feathers dusky brown, externally blue like the back, the two centre tail-feathers and the inner secondaries nearly entirely blue; entire throat and breast orange-rufous, the lower abdomen and under tail-coverts white; thighs blue, as also the sides of the breast; under wing-coverts and axillaries orange-rufous, the edge of the wing blue. Total length 5·3 inches, culmen 0·5, wing 2·9, tail 2·3, tarsus 0·7.

Adult female (*C. tickelliae*). Similar to the male, but paler in colour and distinguished by an absence of black on the chin and face, the frontal line and lores being dull white, the ear-coverts greyish blue with whitish shaft-lines. Wing 2·6 inches, tail 2·15, tarsus 0·65.

Obs. Madras, and therefore typical, specimens have been described; but there is considerable difference exhibited by a series of specimens, principally in the colouring of the underparts. Madras birds are washed with orange-rufous over nearly the whole under surface, and this occurs in both sexes. Ceylonese specimens, on the other hand, are decidedly white on the abdomen, and so are the birds from Kattiawar, the latter, however, being a lighter blue and generally paler form. Burmese specimens are very dark, like the Ceylonese, and have a wash of orange over the whole abdomen, in this resembling the Madras skins. I keep the whole of these forms under the heading of *S. tickelliae*; but it is impossible to overlook the fact that the Ceylonese and Burmese specimens, as well as those from N.W. India, differ a good deal from the typical form, and some of the Ceylon examples are scarcely to be distinguished from true *S. banyumas*. It is also a question whether *C. tickelliae*, *C. banyumas*, *C. sumatrensis*, and *C. philippinensis* should not all be considered as races of one wide-spread form.

Hab. India and Ceylon, ranging eastwards into the Burmese countries.

| | | |
|--------------------------|---|--|
| <i>a.</i> ♂ ad. sk. | Madras. | Sir Walter Elliot [P.]. |
| <i>b.</i> ♂ ad. sk. | Madras. | Dr. Jerdon [P.]. (Type of species.) |
| <i>c.</i> ♀ ad. sk. | Madras. | Dr. Jerdon [P.]. |
| <i>d, e.</i> ♂ ♀ ad. sk. | Madras. | Purchased. |
| <i>f.</i> ♂ ad. sk. | Madras. | F. Nicholson, Esq. [P.]. |
| <i>g.</i> ♂ ad. sk. | Mahabaleshwar hills. | Colonel Sturt [P.]. |
| <i>h.</i> ♂ imm. sk. | Sassowlie, Jan. 1869. | Colonel Sturt [P.]. |
| <i>i, k.</i> ♂ ♀ ad. sk. | Sursye, Kattiawar, April 9, 1871. | Major Hayes Lloyd [P.]. (Cf. <i>Ibis</i> , l.c.) |
| <i>l, m.</i> ♂ ♀ ad. sk. | Oopleta, Kattiawar, Dec. 18, 1871. | Major Hayes Lloyd [P.]. |
| <i>n, o.</i> ♂ ♀ ad. st. | Behar. | B. H. Hodgson, Esq. [P.]. |
| <i>p.</i> Juv. sk. | Darjiling. | J. Fotheringham, Esq. [C.]. |
| <i>q, r.</i> ♂ ♀ ad. sk. | Oplate Forest, S.W. Ceylon, April 23, 1873. | Capt. Vincent Legge [P.]. |
| <i>s.</i> ♂ ad. sk. | Tanamalvilla, S.E. Ceylon, July 4, 1873. | Capt. Vincent Legge [P.]. |
| <i>t, u.</i> ♂ ♀ ad. sk. | Near Newara Eliya. | Mr. E. Boate [C.]. |
| <i>v.</i> ♀ ad. sk. | Kandy hills. | A. Whyte, Esq. [C.]. |
| <i>w, x.</i> ♂ ad. sk. | Ceylon. | E. L. Layard, Esq. [C.]. |
| <i>y.</i> ♂ ad. sk. | Ponsee, Kakhien hills, March 15, 1868. | Dr. J. Anderson [C.]. |
| <i>z.</i> ♂ ad. sk. | Ponsee, April 23, 1868. | Dr. J. Anderson [C.]. |
| <i>a'.</i> ♂ ad. sk. | Saigon, Cochinchina. | M. E. Pierre [P.]. |

7. *Siphia banyumas*.

Muscicapa banyumas, *Horsf. Tr. Linn. Soc.* xiii. p. 143; *id. Zool. Researches in Java*, pl.

Muscicapa rufigaster, *Raffl. Tr. Linn. Soc.* xiii. p. 312.

Muscicapa cantatrix, *Temm. Pl. Col.* iii. pl. 226 (♂ only).

Niltava banyumas, *Gray, Gen. B.* i. p. 264; *id. Hand-l. B.* i. p. 325, no. 4879; *Brüggem. Abhandl. nat. Vereine Bremen*, v. p. 68.

Cyornis banyumas, *Bp. Consp.* i. p. 320; *Horsf. & Moore, Cat. B. Mus. E.I. Co.* i. p. 290; *Bernst. J. f. Orn.* 1859, p. 265; *Pwz. Reis. Norara, Vög.* pp. 78, 161; *Walden, Tr. Z. S.* viii. p. 117; *Salvad. Ucc. Born.* p. 130; *Sharpe, P. Z. S.* 1875, p. 107; *id. Ibis*, 1877, p. 18; *Brüggem. Abhandl. nat. Ver. Bremen*, v. p. 458; *Tweddalle, P. Z. S.* 1878, p. 615 (♂ only).

Cyornis simplex, *Blyth, Ibis*, 1870, p. 165 (♀).*

Adult male. General colour above uniform blue, the forehead brighter blue, extending backwards over the eye; ear-coverts deep blue; a narrow frontal line from the base of the nostrils, lores, feathers round the eye, chin, and fore part of cheeks black; remainder of under surface of body rich orange-rufous, a little paler and inclining to white on the abdomen; sides of upper breast and thighs blue; wing-coverts blue like the back, the least and median series brighter blue, of about the same colour as the forehead and eyebrow; quills dusky brown, externally blue, the inner secondaries

* The type of *C. simplex* is in the Leyden Museum, where I recently examined it.

entirely blue; tail-feathers dark blue, the outer ones black on the inner web; under wing-coverts and axillaries orange-rufous, the edge of the wing blue; quills dusky brown below, lighter on the inner web; "bill black; legs pale brownish lead-colour; iris dark brown" (*Everett*). Total length 5·6 inches, culmen 0·55, wing 3·2, tail 2·85, tarsus 0·65.

Adult female. Similar to the male, but distinguished by the white lores; "bill black; legs purplish leaden grey; iris brown" (*Everett*). Wing 2·75 inches, tail 2·35, tarsus 0·65.

Young. Robin-like. Dusky brown, with subterminal spots of orange-buff to all the feathers of the upper surface; wings and tail dusky, externally blue, the secondaries tipped with buff like the coverts; underneath orange-rufous, mottled with dusky margins to the feathers; abdomen whitish.

Hab. Malayan peninsula, Java, Borneo, Celebes.

| | | |
|---|-------------------------|----------------------------|
| <i>a.</i> Ad. sk. | Penang. | A. R. Wallace, Esq. [C.]. |
| <i>b.</i> ♂ ad. sk. | Java. | Purchased. |
| <i>c.</i> Juv. sk. | Labuan. | Hugh Low, Esq. [C.]. |
| <i>d.</i> ♂ ad.; <i>e, f.</i> ♀ ad. sk. | Labuan. | Hugh Low, Esq. [C.]. |
| <i>g, h.</i> ♂ ad. sk. | Labuan (<i>Loac</i>). | R. B. Sharpe, Esq. [P.]. |
| <i>i.</i> ♂ ad. sk. | Labuan. | Governor Usher [C.]. |
| <i>k, l.</i> ♂ ♀ ad. sk. | Bindulu. | Alfred Everett, Esq. [C.]. |
| <i>m.</i> ♂ ad. sk. | Sarawak. | Henry Everett, Esq. [C.]. |

8. *Siphia philippinensis*.

Cyornis banyumas, *Von Martens, J. f. O.* 1866, p. 11; *Walden, Tr. Z. S.* ix. p. 182.

Cyornis philippinensis, *Sharpe, Tr. Linn. Soc.* new series, i. p. 325; *Tweddale, P. Z. S.* 1877, p. 693, et 1878, pp. 169, 281, 342.

Adult female. General colour dull light blue, not showing perceptibly brighter on the rump; wings and tail blue like the back, the inner webs blackish, the least and median coverts brighter blue than the rest of the upper surface; forehead and eyebrow scarcely any lighter than the rest of the head; ear-coverts dark blue; lores buffy whitish; under surface of body bright orange-rufous, rather paler on the throat and sides of the body; lower breast, abdomen, and under tail-coverts pure white; thighs white, with dusky bases; under wing-coverts and axillaries light orange-buff; "bill black; iris dark chocolate-brown; legs light brown" (*Tweddale*). Total length 5 inches, culmen 0·55, wing 3·1, tail 2·75, tarsus 0·7.

Adult male. Similar to the female, but with black lores. Wing 3·15 inches, tail 2·65, tarsus 0·7.

Hab. Philippine Islands.

| | | |
|-------------------------|----------------------------------|--|
| <i>a.</i> { ♂ } ad. st. | Philippine Islands. | Hugh Cuming, Esq. [C.]. |
| <i>b.</i> { ♀ } ad. sk. | Philippine Islands. | Purchased. |
| <i>c.</i> ♀ ad. sk. | Panay. | Prof. Steere [C.]. (One of the typical specimens.) |
| <i>d.</i> Juv. sk. | Dumaguete, Aug. 1877. | Alfred Everett, Esq. [C.]. |
| <i>e.</i> ♀ ad. sk. | Dumaguete (<i>A. Everett</i>). | R. B. Sharpe, Esq. [P.]. |

9. *Siphia sumatrensis*.

Adult male. Similar to *S. bangponas*, but having the underparts entirely white, with the exception of the throat and fore neck. Total length 5·2 inches, culmen 0·5, wing 2·7, tail 2·35, tarsus 0·6.

Hab. Sumatra.

a. ♂ ad. sk.

Sumatra.

Purchased.

10. *Siphia cæruleata*.*

Schwameria cæruleata, *Ip. Rev. et Mag. de Zool.* 1857, p. 54 (c.c. Temm. MS.); *Gray, Hand-l. B.* iii. p. 167, no. 1219†; *Salvad. Ucc. Born.* p. 131.

Cyornis rufifrons, *Wallace, P. Z. S.* 1865, p. 476; *Blyth, Ibis*, 1870, p. 163; *Salvad. Ucc. Born.* p. 131; *Brüggem. Abhandl. nat. Ver. Bremen*, v. p. 458; *Sharpe, Ibis*, 1878, p. 416 (pt.).

Niltava rufifrons, *Gray, Hand-l. B.* i. p. 326, no. 4888.

Male, not quite adult (type of *C. rufifrons*). General colour above dark ultramarine-blue, lighter on the rump and upper tail-coverts; wing-coverts blue like the back, the least ones rather brighter than the others; quills dusky brown, externally margined with blue; some of the greater coverts tipped with rufous (remains of immature plumage); tail feathers black, washed with blue on the outer edges; lores and a ring of feathers round the eye orange-rufous; chin, cheeks, and ear-coverts blue, with a few orange feathers intermixed (the remains of immature plumage); rest of under surface of body bright orange-rufous, paling to buffy white on the under tail-coverts, the flanks slightly washed with greyish blue; thighs blue; under wing-coverts and axillaries orange-rufous like the breast; edge of wing blue; quills dusky below, fulvescent along the inner web. Total length 6·4 inches, culmen 0·6, wing 3·05, tail 2·6, tarsus 0·6.

Young. General colour above fulvous-brown, with buffy shaft-lines to the feathers, more distinct on the crown: rump with a slight greyish-blue shade; upper tail-coverts bright blue; tail dark blue, the inner webs of the feathers dusky; least wing-coverts like the back: remainder of the wing-coverts and quills dusky brown, washed with the same colour as the back, the coverts and inner secondaries tipped with a spot of orange-rufous; lores, feathers round the eye, and sides of face rufous, with buff shaft-streaks, the ear-coverts edged with dusky; under surface of body bright orange-rufous, paler on the throat, the abdomen white; thighs orange, as also the under wing-coverts. Wing 2·7 inches, tail 2·2, tarsus 0·6.

Adult female. General colour deep olive-brown, more dusky on

* On examining the type of *Schwameria cæruleata* in the Leyden Museum I found that it was the same as *Cyornis rufifrons* of Wallace; and the supposed generic distinction depends upon the state of the specimen, which has the feathers worn away from the base of the bill. A further comparison shows me that I was wrong ('*Ibis*' 1878, p. 416) in uniting *C. rufifrons* with pale legs to *C. beccariana* with dark legs, and I have therefore readjusted the synonymy in the present volume.

the head; the scapulars, remainder of the wing-coverts, and quills dark sepia-brown, margined with olive-brown, rather rufescent; upper tail-coverts blue; tail-feathers blackish, externally bright blue; forehead, lores, and feathers round the eye rufous; cheeks and ear-coverts dark olive-brown, washed slightly with rufous; under surface of body bright orange-rufous, paler on the throat, and inclining to buffy white on the abdomen; under wing-coverts and axillaries like the back; quills dark brown below, ashy along the edge of the inner web. Total length 4·8 inches, culmen 0·5, wing 2·7, tail 1·9, tarsus 0·6.

Hab. Borneo.

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|------------------|------------------|---|
| a. ♂ vix ad. sk. | Sarawak. | A. R. Wallace, Esq. [C]. (Type of <i>C. rufifrons</i> .) |
| b. ♀ ad. sk. | Tagora, Sarawak. | Henry Everett, Esq. [C]. |
| c. ♀ juv. sk. | Sarawak. | A. R. Wallace, Esq. [C]. |

11. *Siphia beccariana*.

Cyornis beccariana, *Salvad. Atti R. Accad. Torino*, iii. p. 533; *id. Ucc. Born.* p. 131; *Brüggem. Abhandl. nat. Ver. Bremen*, v. p. 458.

Cyornis rufifrons, *Sharpe, Ibis*, 1878, p. 416 (♂ ♀ ad.).

Adult male. General colour above bright smalt-blue; the crown deep ultramarine, causing the eyebrow and forehead, which are bright smalt-blue, to stand out in bold relief; scapulars and median wing-coverts ultramarine, with a slight wash of smalt-blue; the lesser coverts bright smalt-blue; greater coverts, primary-coverts, and quills black, edged with ultramarine; tail-feathers black, all but the outer one on each side externally bright blue, richer ultramarine than the wings, and not so brilliant as the back; feathers in front of the eye black; sides of face and ear-coverts black, washed with blue; under surface of body bright orange-rufous, creamy buff in the middle of the abdomen; thighs blue-black on the outer aspect, orange-buff on the inner; under wing-coverts orange; quills dusky brown below, with slightly paler brown edgings to the inner webs. Total length 5·7 inches, culmen 0·55, wing 2·9, tail 2·35, tarsus 0·6.

Adult female. Different from the male. General colour above tawny brown, duller on the head, inclining to foxy chestnut on the upper tail-coverts; the tail chestnut-red; wing-coverts dull brown, edged with tawny brown, so that they appear like the back; the greater coverts and the quills more narrowly edged; the innermost secondaries light fulvous-brown, edged with tawny, with indistinct cross lines of dark brown; forehead, eyebrow, and a ring round the eye tawny; in front of the eye a triangular patch of dull fulvous; sides of face dull ashy brown, with a faint wash of fulvous; cheeks and under surface of body orange-buff, richer on the breast; the lower abdomen fulvescent white; under wing-coverts pale orange-buff. Total length 5·9 inches, culmen 0·55, wing 2·7, tail 2·25, tarsus 0·55.

Hab. Borneo.

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| <i>a, b.</i> ♂ ♀ ad. sk. | Sarawak. | Henry Everett, Esq. [C.]. |
| <i>c, d.</i> ♂ ad. sk. | Tagora, Sarawak. | Henry Everett, Esq. [C.]. |

12. *Siphia turcosa*.

Cyornis turcosa, *Brügg. Abhandl. nat. Ver. Bremen*, v. p. 457.

General colour above light blue, inclining to turquoise-blue on the rump and upper tail-coverts; least and median wing-coverts bright cobalt, forming a conspicuous shoulder-patch; remainder of the wing-coverts and quills blackish, externally deep blue, the outer primaries entirely black: middle tail-feathers blue, the others blue on the outer web, black on the inner; forehead turquoise-blue, which extends backwards over the eye; lores black; ear-coverts deep blue; cheeks and entire throat and breast light orange-buff; rest of under surface pure white, the under tail-coverts washed with blue; sides of body washed with light orange-buff; thighs blue, the feathers tipped with white; under wing-coverts and axillaries light orange-buff, the edge of the wing bright blue. Total length 5.1 inches, culmen 0.6, wing 2.8, tail 2.25, tarsus 0.7.

Hab. Borneo and Malacca.

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|-------------------|-------------------|-----------------------|
| <i>a.</i> Ad. sk. | Lumbidan. | Governor Ussher [C.]. |
| <i>b.</i> Ad. sk. | Kessang, Malacca. | M. A. Bouvier. |

13. *Siphia magnirostris*.*

Cyornis, sp., *Blyth, Cat. B. Mus. A. S. B.* p. 173.

Cyornis magnirostris, *Blyth, J. A. S. B.* xviii. p. 814, xxxix. p. 100; *Jerd. B. Ind.* i. p. 469; *Blyth, Ibis*, 1866, p. 371; *Geddes-Austen, J. A. S. B.* 1870, p. 160; *Hume, Str. F.* 1876, p. 223, et 1877, pp. 359, 489; *id. & Davison, Str. F.* 1878, p. 229.

Niltava magnirostris, *Gray, Hand-l. B. i.* p. 326, no. 4890.

Adult male. Above deep ultramarine-blue, brighter on the rump and upper tail-coverts; forehead and line over each eye brighter and

* I am unacquainted with the following species: -

SIPHIA MANDELLII.

Cyornis mandellii, *Hume, Str. F.* 1874, p. 510, et 1876, p. 396.

Length 5.25 inches; wing 2.9, the third and fourth primaries equal, the fifth slightly shorter, the second 0.3 and the first 1.4 shorter than the longest; the third quill is therefore slightly longer than in typical *Cyornis*: tail from vent 2, bill at front 0.45, tarsus 0.6.

The legs and feet were apparently very pale fleshy or pinkish white; the upper mandible blackish brown, paling just at the tip; the lower mandible pale yellowish horny; the lores, a ring round the eye, and a patch at the base of the lower mandible white; the rectal and narial bristles black; the forehead, crown, occiput, cheeks, ear-coverts, and nape brown; the mantle, rump, and upper tail-coverts also brown, but more and more tinged with rufous as they approach the latter, which are a decided rufous-brown; wings hair-brown, darkest on the primaries, the second of which has a barely perceptible whitish margin to the

more smalt-blue: lores, sides of face, and ear-coverts black, with a shade of blue on the latter; wings deep blue, the quills dusky blackish, edged with blue on the outer web; tail-feathers deep blue, blackish internally; throat and breast orange, lighter on the former, the sides of the chest rich ultramarine; remainder of under surface of body and under tail-coverts white; sides of body and under wing-coverts orange-buff; thighs deep blue; "Bill dusky; legs pale whitish" (*Jerdon*). Total length 6 inches, culmen 0.55, wing 3.1, tail 2.5, tarsus 0.7. (*Mus. H. J. Elves.*)

Adult female. General colour above olive-brown, the head and nape ashy brown, washed slightly with olive; sides of face and ear-coverts ashy brown; lores dull white; round the eye a conspicuous ring of dull white plumes; wing-coverts like the back, the greater coverts and the quills brown, externally washed with reddish olive; primary coverts dusky brown, contrasting with the rest of the wing; upper tail-coverts rather more rufescent than the rest of the back; tail olivaceous, strongly washed with rufous, especially near the base of the feathers; under surface light orange-buff, the chin, abdomen, and under tail-coverts white; thighs dusky brown; under wing-coverts like the breast. Total length 5.5 inches, culmen 0.55, wing 2.75, tail 2.3, tarsus 0.7. (*Mus. H. J. Elves.*)

Hab. Eastern Himalayas, extending into Southern Tenasserim.

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|---------------------------------|---------------------------|--------------------------|
| <i>a</i> , ♂ ad. sk. | Native Sikkim, June 1873. | L. Mandelli, Esq. [P.] |
| <i>b</i> , <i>c</i> , ♂ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.] |

14. *Siphia rufigula*.

Cyornis rufigula, *Wall. P. Z. S.* 1868, p. 476; *Walden, Tr. Z. S.* vii. p. 66, pl. 7, fig. 3*a*.

Siphia rufigula, *Blyth, Ibis*, 1866, p. 372.

Niltava rufigula, *Gray, Hand-l. B.* i. p. 326, no. 4887.

Adult male. General colour above uniform slaty blue, the wing-coverts uniform with the back, with no brighter patch on the shoulder or upper tail-coverts; quills dusky brown, externally of the same colour as the back; tail-feathers blackish, washed with slaty grey on the margins; lores, ear-coverts, and sides of face slaty black; entire throat and breast rich orange-rufous, the rest of the under surface and under tail-coverts white; sides of body light orange-

outer web; all the secondaries, tertiaries, and their greater and median coverts margined with pale ferruginous on their outer webs; tail hair-brown, the feathers tinged on their outer webs, towards the bases, with the same rufescent brown as the upper tail-coverts; an indistinct pale-brown streak runs down on either side, dividing the white patch at the base of the lower mandible from the white medial portion of the chin and throat; the breast, sides, and flanks are pale brown, more or less margined and streaked with pale rufous-buff; the wing-lining and axillaries and the inner margins of the quills towards their bases pale rufous-buff; the abdomen, vent, and lower tail-coverts white; the tail is even; the tarsi and feet are, perhaps, slightly slenderer than in *elegans*; the bill is a great deal broader than in that species, almost exactly the same size as in *tickellii*. (*Hume.*)

Hab. Sikkim.

fulvous, washed with grey; thighs blue; sides of upper breast bluish; under wing-coverts light fulvous, the edge of the wing slaty blue; quills ashy brown, fulvescent along the inner web. Total length 5·2 inches, culmen 0·45, wing 2·7, tail 2·25, tarsus 0·65.

Obs. In the figure of this bird (*Tr. Z. S. l. c.*) the artist has given the thighs as white instead of slaty blue.

Hab. Celebes.

a. ♂ ad. sk.

Menado, Celebes.

A. R. Wallace, Esq. [C.]
(Type of species.)

15. *Siphia nigrorufa*.

Saxicola nigrorufa, *Jerd. Madr. Journ.* x. p. 266.

Muscicapa rufula, *Lafr. Rev. Zool.* 1840, p. 66.

Niltava nigrorufa, *Gray, Gen. B. i.* p. 264; *id. Hand-l. B. i.* p. 526, no. 4892.

Ochromela nigrorufa, *Blyth, J. A. S. B.* xvi. p. 129; *id. Cat. B. Mus. A. S. B.* p. 173; *Bp. Conspect.* i. p. 319; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 289; *Jerd. B. Ind.* i. p. 462; *Hume, Nests and Eggs Ind. B.* p. 207; *id. Str. F.* 1876, p. 396; *Fairb. Str. F.* 1877, p. 401.

Adult male (type of species). Head, nape, and hind neck slaty black; rest of upper surface of body, including the scapulars, orange-rufous; wing black, the quills rather browner; tail orange; cheeks and entire under surface of body orange-rufous, paler and inclining to buffy white on the abdomen; thighs slaty grey; under wing-coverts pale orange; quills dusky brown below, edged with white along the edge of the inner web; "bill black; legs dirty reddish; iris hazel-brown" (*Jerdon*). Total length 4·7 inches, wing 2·4, tail 1·9, tarsus 0·8.

Adult female. Duller than the male, the head dusky brown instead of blackish; wings browner than in the male, the wing-coverts washed with orange. Total length 4·6 inches, culmen 0·45, wing 2·3, tail 1·8, tarsus 0·8.

Hab. Southern India and Ceylon.

a. ♂ ad. sk.

Neilgherry Mountains.

Dr. Jerdon [P.]. (Type of species.)

b. ♀ ad. sk.

Neilgherry Mountains.

Dr. Jerdon [P.].

c. ♀ ad. sk.

S. India.

R. Cole, Esq. [P.].

16. *Siphia strophhiata*.

Siphia strophhiata, *Hodgs. Ind. Review*, i. p. 651; *Gray, Cat. Mamm. Sc. Nepal Coll.* *Hodgs.* p. 92; *Blyth, J. A. S. B.* xvi. p. 125; *id. Cat. B. Mus. A. S. B.* p. 171; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 293; *Jerd. B. Ind.* i. p. 479; *Godwin-Austen, J. A. S. B.* 1870, p. 101; *Sicinh. P. Z. S.* 1871, p. 381; *Blyth & Walden, B. Burm.* p. 103; *David & Oustal. Cis. Chine*, p. 115; *Hume & Davison, Str. F.* 1878, p. 232.

Dimorpha strophhiata, *Hodgs. P. Z. S.* 1845, p. 26; *id. in Gray's Zool. Misc.* p. 83; *Bp. Conspect.* i. p. 319.

Niltava strophinata, Gray, *Gen. B.* i. p. 264; *id. Hand-l. B.* i. p. 326, no. 4900.

Menetica strophinata, Cab. *J. f. O.* 1866, p. 393.

Adult male. Above olive-brown, the feathers of the rump long and silky, with a subterminal bar of white; upper tail-coverts and two centre tail-feathers blackish, the next feather on each side with a white bar on the outer web, all the other feathers white for the basal half, blackish for the terminal half; least wing-coverts slaty grey, the remainder brown, edged with the same colour as the back; the greater coverts and secondaries rather broadly margined with rusty brown, the edges narrower on the primaries; a narrow frontal line, lores, and feathers round the eye black, succeeded by a tolerably broad frontal line of white, extending backwards over the fore part of the eye, the neighbouring part of the vertex being shaded with grey; sides of face, ear-coverts, and throat slaty black, succeeded by a jugular patch of orange-chestnut; entire breast slaty grey, the centre of the body and under tail-coverts whitish, the flanks olivaceous brown; thighs slaty grey; under wing-coverts and axillaries light ochraceous buff, those near the edge of the wing dark slate-colour; quills dark brown below, whitish brown along the edge of the inner web; bill black; legs brown; iris dark brown" (*Jerdon*). Total length 5 inches, culmen 0.45, wing 2.9, tail 2.2, tarsus 0.75.

Adult female. As figured by Mr. Hodgson, the female has the sides of the face and throat grey and the gorget much paler orange-rufous; the breast is also much paler grey; the white frontlet is also nearly obsolete. Examples answering to this identification are in the Museum, and specimens of the female bird in Colonel Godwin-Austen's collection confirm the above determination.

Young. Robin-like. Mottled all over with spots of ochraceous buff, the feathers having dusky blackish margins, the head streaked with ochraceous; an indication of a white frontlet; under surface much as in adult female, but the breast mottled with ochraceous spots to the feathers; on the fore neck a slight appearance of orange-rufous.

Obs. In Hodgson's own list of his drawings in the 'Zoological Miscellany,' the numbers given for this species are 424, 430, 476, 714. The three former are represented, in plate 83, as arranged in the typical set in the British Museum. No 714 is *Anthipes moniliger* (plate 85, Mus. Brit.). I believe that the actual specimens from which the above drawings were taken are all in the Museum collection.

Hab. Himalaya Mountains, ranging into Eastern China, the Khasia hills, and hills of Tenasserim.

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|---|-------------|--------------------------------|
| <i>a.</i> ♂ ♀ ad. st. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>b-f.</i> ♂ ad.; <i>g, h.</i> ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>i, k, l, m.</i> Juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>n, o, p.</i> ♂ ad. sk. | Mussoorie. | Capt. Stackhouse Pinwill [P.]. |
| <i>q, r.</i> Ad. sk. | Darjiling. | Capt. C. H. T. Marshall [P.]. |
| <i>s.</i> Ad. sk. | Naga hills. | Colonel Godwin-Austen [P.]. |

17. *Siphia ruficauda*.

Muscicapa ruficauda, *Swains. Nat. Libr., Flyc.* p. 251; *Gray, Gen. B.* i. p. 263.

Muscicapa rubecula, *Jerd. Madr. Journ.* xiii. p. 171 (*nec Lath., nec Swains.*).

Butalis ruficauda, *Blyth, J. A. S. B.* xvi. p. 120.

Cyornis equalicauda, *Blyth, J. A. S. B.* xx. p. 523.

Cyornis ruficauda, *Jerdon, B. Ind.* i. p. 468; *Godw.-Austen, J. A. S. B.* 1870, p. 268; *Brooks, Str. F.* 1875, p. 235; *Fairb. Str. F.* 1876, p. 257; *Hume, l. c.* p. 396; *Butler, Str. F.* 1877, p. 228; *Brooks, l. c.* p. 470.

Niltava ruficauda, *Gray, Hand-l. B.* i. p. 325, no. 4884.

Adult female. General colour above ashy brown, shading off into buff on the rump, and thence into rufous on the upper tail-coverts; tail rufous, the feathers ashy brown on the outer web, the two centre feathers entirely of the latter colour; wing-coverts ashy brown, the quills dusky, externally ashy brown like the back; the greater coverts with narrow pale tips; lores and a conspicuous ring of feathers round the eye whitish; ear-coverts ashy brown, with narrow whitish shaft lines; cheeks and under surface of body dull whitish, ashy on the breast and flanks; thighs ashy; under wing- and tail-coverts fulvescent; quills ashy brown below, fulvous along the inner web; "bill dusky; iris deep brown" (*Jerdon*). Total length 4.5 inches, culmen 0.55, wing 3.1, tail 2.15, tarsus 0.65.

Young. Similar to the adult, but more olivaceous, and mottled with pale fulvous spots, margined with blackish, the greater coverts externally pale orange-buff; below buffy white, the breast mottled with dusky edges to the feathers.

Hab. Indian peninsula.

| | | |
|---------------------|------------|---------------------|
| <i>a.</i> Ad. sk. | Nellore. | Dr. Jerdon [P.]. |
| <i>b.</i> ♀ ad. sk. | Himalayas. | Dr. Stoliczka [P.]. |
| <i>c.</i> Juv. sk. | Himalayas. | Dr. Stoliczka [P.]. |

18. *Siphia olivacea*.*

Cyornis olivacea, *Hume, Str. F.* 1877, p. 338; *id. & Davison, Str. F.* 1878, p. 229.

* The following species is unknown to me. As with the allied olive-backed birds of the genus *Siphia*, I believe it probable that it will prove to be the female or young of some bright-coloured male. It is very probably not a *Cyornis* at all, and may turn out to be *Rhinomyias pectoralis*.

SIPHIA ALBO-OLIVACEA.

Cyornis albo-olivacea, *Hume, Str. F.* 1877, p. 488.

Entire bill black; legs and feet white; claws very pale horny; entire lores white, or greyish white; forehead, occiput, crown, cheeks, ear-coverts, entire mantle, a slightly rufescent olive-brown, slightly more rufescent on the rump; tail rufous-brown, margined with dull pale ferruginous on the outer webs; wings rather pale hair-brown; all the feathers but the primaries margined broadly on the outer webs with the colour of the back, slightly more rufescent on the secondaries and tertiaries, which are almost entirely of this colour; chin,

Adult female. General colour above dull olivaceous, the head and nape greyer; sides of head, cheeks, and ear-coverts ashy grey, with lighter shaft-lines to the ear-coverts; lores dull white; feathers round the eye buffy whitish; wing-coverts and quills ashy brown, edged with the same colour as the back, rather more fulvescent on the greater coverts and quills; tail dull brown, externally pale rufous; under surface of body white, the fore neck, breast, and sides of body ashy fulvous; under wing-coverts and axillaries white, the edge of the wing olivaceous brown. Total length 5·8 inches, culmen 0·5, wing 3, tail 2·5, tarsus 0·7.

Hab. Northern Tenasserim provinces, Java, Borneo.

| | | |
|------------------------|------------------|---------------------------|
| <i>a, b.</i> ♀ ad. sk. | East Java. | A. R. Wallace, Esq. [C.]. |
| <i>c.</i> ♀ ad. sk. | Sarawak, Borneo. | Henry Everett, Esq. [C.]. |

67. DIGENEA.

Type.

Digenea, *Hodgson*, *P. Z. S.* 1845, p. 26 *D. leucomelanura*.
Anthipes, *Blyth*, *J. A. S. B.* xvi. p. 122 (1847). . . *D. moniliger*.



Foot of *Digenea moniliger*.

Range. Himalaya Mountains, Burmese countries to Tenasserim, Sumatra.

Key to the Species.

- a.* Above grey, with a bright blue eyebrow and forehead.
 - a'.* Below greyish white. *leucomelanura* ♂, p. 459.
 - b'.* Below fawn-colour *cerciniventris* ♂, p. 460.
- b.* Above rufous or olive-brown.
 - c'.* With no white gorget, the throat being pale yellowish buff. *leucomelanura* ♀, p. 459.
 - d'.* With a distinct white gorget, surrounded by a line of black.
 - a''.* Ear-coverts and sides of face olive. *moniliger*, p. 460.
 - b''.* Ear-coverts and sides of face rufous.
 - a'''.* Forehead pale orange-buff *submoniliger*, p. 461.
 - b'''.* Forehead rufous *solitaria*, p. 461.

throat, upper breast, abdomen, vent, lower tail-coverts, wing-lining, and axillaries pure white; a broad greyish olivaceous pectoral band; sides tinged with the same colour. Length 6·25 inches, tail 2·9, wing 3·1, bill from forehead straight to point 0·7, tarsus 0·65. (*Hume*.)

Hab. Malacca.

1. *Digenea leucomelanura*. (Plate XIII.)

Siphia? *leucomelura*, *Hodgs. Icon. ined., Passeres*, pl. 215 (*Hodgs.* no. 419).

Digenea leucomelanura, *Hodgs. Icon. ined., Passeres, App.* pl. 113; *id. in Gray's Zool. Misc.* p. 84; *id. P. Z. S.* 1845, p. 26; *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 92; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 294.

Digenea tricolor, *Hodgs. Icon. ined., Passeres*, pl. 208 (*Hodgs.* no. 795); *id. P. Z. S.* 1845, p. 26; *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 92; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 294; *Brooks, Str. F.* 1875, p. 277.

Siphia leucomelanura, *Blyth, J. A. S. B.* xvi. p. 126; *id. Cat. B. Mus. A. S. B.* p. 172; *Jerd. B. Ind.* i. p. 479; *Brooks, Str. F.* 1875, p. 235.

Siphia tricolor, *Blyth, J. A. S. B.* xvi. p. 126; *id. Cat. B. Mus. A. S. B.* p. 172; *Jerd. B. Ind.* i. p. 478; *Brooks, Str. F.* 1877, p. 471.

Dimorpha leucomelanura, *Bp. Consp.* i. p. 319.

Dimorpha tricolor, *Bp. Consp.* i. p. 319.

Niltava, sp., *Gray, Hand-l. B.* i. p. 327, no. 4905.

Niltava leucomelanura, *Gray, Hand-l. B.* i. p. 327, no. 4906.

Siphia minuta, *Hume, Ibis*, 1872, p. 116; *Brooks, t. c.* p. 470.

Adult male. Above dull slaty blue, brighter and more ashy blue on the forehead and crown; ear-coverts dark slaty blue, a narrow frontal line, lores, feathers in front of and below the eye, and the fore part of the cheeks slaty black, shading into the dark grey of the ear-coverts; wing-coverts slaty blue like the back, the greater series blackish brown, externally washed with slaty blue, the inner secondaries coloured like the greater coverts, and washed with slaty blue in the same manner; primaries brown, edged with lighter and somewhat more ochraceous brown; upper tail-coverts darker than the back; tail black, white at the base, the two centre feathers entirely black; throat white; remainder of under surface of body ashy grey, the flanks dull greyish, the sides of the upper breast slaty blue, the centre of the abdomen white; under tail-coverts dusky blackish, with longitudinal white central streaks; thighs dusky greyish; under wing-coverts and axillaries pale ochraceous, with blackish bases to the feathers; quills ashy brown below, with light fulvescent edges to the inner webs; "bill dusky; feet brown; iris dark brown" (*Jerdon*). Total length 4.6 inches, culmen 0.4, wing 2.45, tail 2.2, tarsus 0.75.

Adult female. Above olive-brown, rather more rufous on the forehead, and inclining to fulvescent brown on the rump; upper tail-coverts and tail chestnut, the latter browner at the tip, and having indistinct transverse lines under certain lights; lesser wing-coverts olive-brown like the back, the median and greater series dark brown, edged with rufous and tipped with a light rufous spot on each; quills dark brown, externally edged with rufous, more broadly on the secondaries; in front of the eye a dull whitish spot; sides of face olive-brown, darker on the ear-coverts; the feathers round the eye fulvescent, the cheeks and fore part of ear-coverts mottled with spots of ochraceous buff; throat light ochraceous brown, lighter in

the centre; breast, sides of body, and under tail-coverts light ochraceous brown, washed with olive on the sides of the upper breast, the centre of the abdomen whitish; thighs brown; under wing-coverts and axillaries light ochraceous buff; quills sepia-brown below, rufescent along the edge of the inner web. Total length 4·5 inches, culmen 0·4, wing 2·35, tail 2, tarsus 0·7.

Hab. Himalaya Mountains.

| | | |
|--------------------------|--------------------|--------------------------------|
| <i>a.</i> ♂ ad. sk. | Sikkim, Jan. 1874. | L. Mandelli, Esq. [P.]. |
| <i>b.</i> ♀ ad. sk. | Sikkim, Oct. 1873. | L. Mandelli, Esq. [P.]. |
| <i>c, d.</i> ♂ ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>e.</i> ♂ ad. sk. | Himalayas. | Capt. Stackhouse Pinwill [P.]. |
| <i>f.</i> ♀ ad. sk. | Himalayas. | Purchased. |

2. *Digenæa cerviniventris*.

Siphia tricolor, *Godw.-Aust. J. A. S. B.* 1872, p. 142 (*see* *Hodys*).

Siphia leucomelanura, *Godw.-Aust. J. A. S. B.* 1878, p. 15 (*see* *Blyth*).

Similar to *D. leucomelanura*, but deep fawn-coloured underneath instead of white. Total length 4 inches, culmen 0·35, wing 2·2, tail 1·9, tarsus 0·7.

Hab. Khasia and neighbouring ranges of hills.

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| <i>a.</i> ♂ ad. sk. | Manipur hills. | Colonel Godwin-Austen [P.]. |
|---------------------|----------------|-----------------------------|

Obs. The specimen presented by Colonel Godwin-Austen seems to be so different from all the Himalayan skins, that it appears to be a distinct species.

3. *Digenæa moniliger*. (Plate XIV. fig. 1.)

Dimorpha? *moniliger*, *Hodys. P. Z. S.* 1845, p. 26.

Anthipes gularis, *Blyth, J. A. S. B.* xvi. p. 122; *id. Ibis*, 1865, p. 44.

Anthipes moniliger, *Blyth, Cat. B. Mus. A. S. B.* p. 172; *Bp. Consp.* i. p. 319; *Jerd. B. Ind.* i. p. 477; *Blyth & Wadd. B. Burn.* p. 103;

Hume, Str. P. 1877, p. 113.

Niltava moniliger, *Gray, Hand-l. B.* i. p. 326, no. 4902.

Adult. General colour above olive-brown, slightly fulvescent and rather inclining to rufous on the rump; least wing-coverts olive-brown like the back, remainder of wing-coverts and quills ferruginous, the latter sepia-brown on the inner web, the primaries externally paler rufous; primary-coverts dusky brown, contrasting with the rufous of the wing; upper tail-coverts and tail ferruginous, the tail-feathers browner on the inner web; lores and an indistinct eyebrow fulvous; ear-coverts and sides of face olive-brown, the former with whitish shaft-lines; throat white, margined all round by a line of black feathers; rest of under surface of body light fulvous-brown, white in the centre of the abdomen, the lower flanks and thighs somewhat tinged with rufous; under wing-coverts fulvous, the lower ones whiter; quills dull brown below, light rufous-buff along the inner web; "bill black; legs and claws pale fleshy; iris dark brown" (*Jerdon*). Total length 4·2 inches, culmen 0·4, wing 2·35, tail 1·75, tarsus 0·8.

A Darjiling specimen differs from the one described in having an olive-greenish shade on the sides of the body.

Hab. Eastern Himalayas; hills of Aracan; Naga hills; Karen hills in Burmah.

| | | |
|----------------------|------------|-------------------------------|
| <i>a.</i> Ad. st. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>b, c.</i> Ad. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>d.</i> Ad. sk. | Darjiling. | J. Fotheringham, Esq. [C.]. |
| <i>e.</i> Ad. sk. | Darjiling. | Capt. C. H. T. Marshall [P.]. |

4. *Digeesa submoniliger*.

Anthipes moniliger, *Hume, Str. F.* 1874, p. 475 (*nee* *Hodgs.*).

Anthipes submoniliger, *Hume, Str. F.* 1877, p. 105; *id.* & *Darison, Str. F.* 1878, p. 232.

A moderately broad frontal band, the whole of the lores, a stripe over the eye, and a circle of feathers round the eye (this latter also is wanting in *A. moniliger*) rather pale orange buff; the entire upper surface a rich, somewhat rufescent olive (somewhat lighter and more rufescent than in *A. moniliger*), becoming ferruginous on the upper tail coverts; the tail is deep ferruginous, brighter coloured, and more rusty on the margins of the feathers; wings hair-brown, margins and visible portions of closed wing overlaid with a somewhat rufescent olivaceous tint; a satiny-white patch commencing at the point of the chin, and descending well upon the breast (1·35 inch in length), something the shape of an inverted hare-bell; a very narrow, scarcely noticeable brown line bounds this patch on either side, and a narrow dark line below; the rest of the breast, sides and flanks, sides of the neck, cheeks, and ear-coverts olive, only slightly paler than the upper surface, but the cheeks and ear-coverts much more rufescent, and with a tinge of the colour of the lores; middle of abdomen, vent, and lower tail-coverts dull white; shoulder of the wing pale fulvous; axillaries silky white; the bill black, yellowish on lower mandible; legs and feet very pale, probably in life fleshy white. Length 5·2 inches, wing 2·45, tail 2, tarsus 0·87, bill from forehead 0·6, from gape 0·61. (*Hume.*)

Hab. Tenasserim.

5. *Digeesa solitaria*. (Plate XIV. fig. 2.)

Erythrostera solitaria, *S. Müller in Van der Hoeven's Tijdschr.* 1835, p. 351; *Bp. Conspect.* i. p. 319.

Anthipes solitaria, *Blyth, Ibis*, 1865, p. 44.

Muscicapa solitaria, *Gray, Hand-l. B.* i. p. 323, no. 4845.

Adult male (Singalong, Sumatra, *S. Müller*; type of species). General colour above rufous-brown, the head a little more dusky; wing-coverts dark brown, edged with rufous-brown like the back; quills dusky brown, with rufous margins to the outer webs, the secondaries edged with rufous-brown, the innermost exactly like the back; upper tail-coverts deep chestnut; tail-feathers rufous-brown,

washed with chestnut on the outer webs; forehead, lores, feathers over the eye, sides of face, cheeks, sides of throat, and a spot at base of chin rufous; throat and fore neck pure white, surrounded by a line of black; breast rufous-ochre; centre of the breast, abdomen, and under tail-coverts white, washed with ochraceous brown, especially on the flanks and under tail-coverts; thighs ochraceous brown; under wing-coverts white, washed with brown; quills dusky brown below, more ashy along the edge of the inner web. Total length 5 inches, culmen 0.45, wing 2.65, tail 2.1, tarsus 0.85. (*Mus. Lugd.*)

Adult female. Like the male, the head a little more rufous and not so dark brown. Total length 4.8 inches, culmen 0.45, wing 2.6, tail 1.95, tarsus 0.8. (*Mus. Lugd.*)

Hab. Island of Sumatra.

a. ♂ ad. sk. Singaloug, Sumatra Leyden Museum [P.]. (One of the typical specimens.)
(*S. Müller*).

68. NILTAVA.

Type.

Niltava, *Hodgs. Ind. Review*, i. p. 650 (1837) *N. sundara*.

Chaitaris, *Hodgs. J. A. S. B.* x. p. 29 (1841) *N. sundara*.

Bainopus, *Hodgs. in Gray's Zool. Misc.* p. 84 (1844) *N. grandis*.

Range. Himalaya Mountains, extending through the Burmese countries to Southern China and Formosa.

Key to the Species.

Males.

a. Beneath orange-rufous.

a'. Throat black or blue-black *sundara*, p. 463.

b'. Throat washed with bright purplish blue *cirida*, p. 464.

b. Breast dusky greyish or cindery grey, slightly washed with purple.

c'. Much larger; forehead black; crown smalt-blue; under wing-coverts dusky, like the breast *grandis*, p. 464.

d'. Very much smaller; forehead bright smalt-blue, like fore part of crown; under wing-coverts white *macgrigorice*, p. 465.

Females.

a. With no blue spot on the side of the neck *cirida*, p. 464.

b. With a spot of bright blue on the sides of the neck.

a'. Smaller; with a white throat-spot.

a''. Larger; wing 3.1 inches; under wing-coverts ochraceous buff *sundara*, p. 463.

b''. Smallest; wing 2.45 inches; under wing-coverts white *macgrigorice*, p. 465.

b'. Much larger; wing 3.9 inches; throat rufous-ochre *grandis*, p. 465.

1. *Niltava sundara*.

Niltava sundara, *Hodgs. Ind. Rev.* i. p. 650; *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 92; *id. Gen. B.* i. p. 264; *Blyth, Cat. B. Mus. A. S. B.* p. 174; *Bp. Consp.* i. p. 319; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 288; *Jerd. B. Ind.* i. p. 473; *Gray, Hand-l. B.* i. p. 325, no. 4875; *Godw.-Austen, J. A. S. B.* 1870, p. 101; *Hume, Nests and Eggs Ind. B.* i. p. 213; *Blyth & Wald. B. Burm.* p. 102; *David & Oustal. Ois. Chine*, p. 117; *Hume & Davison, Str. F.* 1878, p. 231.

Chaitaris sundara, *Hodgs. Icon. ined., Passeres, App.* pl. 107 (*Hodgs.* no. 142); *id. in Gray's Zool. Misc.* p. 84; *Blyth, J. A. S. B.* xi. p. 189, xii. p. 940.

Chaitaris sordidus, *Hodgs. in Gray's Zool. Misc.* p. 84.

Cyanocula fastuosa, *Less. Rev. Zool.* 1840, p. 226.

Adult male. General colour above blue-black; crown of head and nape, lower back, rump, and upper tail-coverts, as well as the least wing-coverts, rich smalt-blue, the remainder of the wing-coverts black, externally washed with deep blue; quills black, the secondaries washed with blue on the outer web; centre tail-feathers deep blue, the others black, blue on the outer web; forehead, lores, feathers above the eye, ear-coverts, sides of face, and throat deep blue-black; on the side of the neck a line of glistening smalt-blue feathers; remainder of under surface of body orange-ferruginous, including the under wing-coverts; edge of wing blue-black, as well as the adjoining small coverts; thighs sooty black; "bill black; legs brown; iris dark brown" (*Jerdon*). Total length 6·5 inches, culmen 0·45, wing 3·1, tail 2·8, tarsus 0·85.

Adult female. Different from the male. Olivaceous brown above, slightly more ashy on the head and back; primary-coverts, greater coverts, and quills dark brown, externally edged with dull ochre, the inner secondaries washed entirely with this colour; upper tail-coverts also washed with ochraceous; tail rufous, browner on the inner webs of the feathers; lores and a ring of feathers round the eye ochraceous buff; sides of face and ear-coverts dull ashy brown, with a narrow line of cobalt-blue feathers traversing the sides of the neck; under surface of body olivaceous ash-colour, greyish in the centre of the belly; on the fore neck a large spot of white; under wing-coverts light ochraceous. Total length 6 inches, culmen 0·45, wing 3·1, tail 2·6, tarsus 0·85.

Hab. Himalaya Mountains, extending into the Burmese countries and Western China.

a-c. ♂ ad.; *f-k.* ♀ ad. sk. Nepal.

l-o. Juv. sk.

p. ♂ ad. sk.

Nepal.

Nepal.

Kalsi, Feb. 6, 1868

(*G. F. L. Marshall*).

B. H. Hodgson, Esq. [P.].

B. H. Hodgson, Esq. [P.].

R. B. Sharpe, Esq. [P.].

2. *Niltava vivida*.

Cyornis vivida, *Swinh. Ibis*, 1864, p. 363, et 1866, p. 393, pl. 11; *id. P. Z. S.* 1871, p. 389; *David & Oustal. Ois. Chine*, p. 116; *Hume & Davison, Str. F.* 1878, p. 229.

Niltava vivida, *Gray, Hand-l. B.* i. p. 326, no. 4889.

Adult male. Above deep purplish blue, inclining to brilliant smalt-blue on the top of the head, lower back, rump, and upper tail-coverts; a narrow frontal line, lores, and feathers in front of the eye black; ear-coverts blue-black; wing-coverts purplish blue, a little brighter than the back; quills black, washed externally with purplish blue; tail black, the feathers deep smalt-blue on the outer web, the two centre feathers entirely smalt-blue; under surface of body orange-chestnut, excepting the throat, which is deep ultramarine or purplish blue; lower flanks silky white, orange-rufous at tip; thighs blackish; sides of breast black, washed with purplish blue; under wing-coverts orange-rufous like the breast; quills dusky below, greyish along the inner web; "bill black; legs and feet dark brown, purplish brown, purplish plumbeous; iris deep brown" (*Davison*). Total length 5·7 inches, culmen 0·5, wing 3·25, tail 2·65, tarsus 0·75.

Adult female. General colour above olive-brown, with a grey shade on the mantle; head dull grey; wing-coverts and quills dusky brown, with ochraceous-olive margins; upper tail-coverts clearer olive; tail-feathers dark brown, externally olive; lores, base of forehead, and feathers round the eye deep ochraceous buff; ear-coverts ashy olive, with fulvous shaft-lines; throat ochraceous buff; the sides of the neck, breast, and sides of the body ashy olive; the centre of the breast washed with ochraceous buff, the under tail-coverts entirely of the latter colour; centre of abdomen whitish; thighs olive-brown; under wing-coverts ochraceous buff; quills sepia-brown below, ashy along the inner web. Total length 5·8 inches, culmen 0·5, wing 3·3, tail 2·4, tarsus 0·75.

Hab. Formosa; Tenasserim Provinces.

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| <i>a.</i> ♂ ad. sk. | Formosa, March 1866. | R. Swinhoe, Esq. [C]. |
| | | (Spec. figured, <i>l.c.</i>) |
| <i>b.</i> ♀ ad. sk. | Formosa, March 1866. | R. Swinhoe, Esq. [C]. |

3. *Niltava grandis*.

Claitaris grandis, *Blyth, J. A. S. B.* xi. p. 189, xii. p. 940.

Niltava grandis, *Gray, Gen. B.* i. p. 264; *Blyth, J. A. S. B.* xvi. p. 424; *id. Cat. B. Mus. A. S. B.* p. 174; *Bp. Consp.* i. p. 319; *Horsf. & Moore, Cat. B. Mus. E. I. Co.* i. p. 288; *Jerd. B. Ind.* i. p. 476; *Gray, Hand-l. B.* i. p. 325, no. 4877; *Gaduc.-Austen, J. A. S. B.* 1870, p. 101; *Hume, Str. F.* 1874, p. 475; *id. Nests and Eggs Ind. B.* p. 215; *Blyth & Wald. B. Burm.* p. 102; *Hume, Str. F.* 1877, p. 103; *id. & Davison, Str. F.* 1878, p. 232.

Bainopus irenoides, *Hodgs. Icon. ined., Passeres*, pl. 211, *et App.* pl. 105 (*Hodgs.* no. 284); *id. in Gray's Zool. Misc.* p. 84.

Bainopus grandis, *Gray, Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 91.

Adult male. General colour above dark purplish blue, the crown and nape, rump, and upper tail-coverts smalt-blue; least upper wing-coverts smalt-blue, the rest of the coverts and the quills blackish, externally washed with blue; tail-feathers purplish blue, all but the two centre ones internally black; forehead, lores, feathers above the eye, ear-coverts, sides of face, and entire throat and fore

neck black; down the side of the neck a transverse line of bright smalt-blue feathers; rest of under surface of body dusky blackish, somewhat shaded with purple and with more or less of an ashy hue; under wing-coverts also ashy blackish, the edge of the wing purplish blue; quills blackish below, browner along the inner web; "bill black; legs reddish black; iris dark brown." Total length 8 inches, culmen 0·7, wing 3·95, tail 3·6, tarsus 1.

Adult female. Different from the male. Above reddish olivaceous brown, greyer on the head and neck; wings reddish, the quills internally dark brown; upper tail-coverts rufescent; tail deep rufous; forehead and eyebrow rufous ochre; ear-coverts dull brown, with ochraceous shaft-streaks; on the sides of the neck a streak of bright cobalt; throat ochre; rest of under surface rufous-ochre, rather greyer on the abdomen, as also the under wing-coverts; quills dark brown, rufous along the edge of the inner web; thighs deep brown. Total length 7·5 inches, wing 3·9, tail 3·4, tarsus 1.

Nestling. Rufous above and below, mottled all over, like a young Robin or Blackbird, with spots of deep ochre, edged with black, the spots lighter on the head; under surface mottled with blackish edgings to the feathers.

Hab. Himalaya Mountains, extending into the Burmese countries.

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| <i>a.</i> ♂ ad. | <i>b.</i> ♂ juv. sk. | Nepal. | B. H. Hodgson, Esq. [P]. |
| <i>c. f.</i> ♂ | <i>g. k.</i> ♀ ad. sk. | Nepal. | B. H. Hodgson, Esq. [P]. |
| <i>l-o.</i> Pull. sk. | | Nepal. | B. H. Hodgson, Esq. [P]. |
| <i>p.</i> ♂ juv. sk. | | Darjiling. | Sec. of State for India [P]. |

4. *Niltava macgrigoriæ*.

Phenicura macgrigoriæ, *Burton, P. Z. S.* 1835, p. 152.

Niltava fuliginiventer, *Hodgs. Ind. Rev.* i. p. 650.

Chaitaris fuliginiventer, *Hodgs. Icon. ined., Passeres, App.* pl. 106 (*Hodgs.* no. 143).

Leiothrix signata, *McClell. P. Z. S.* 1839, p. 162.

Chaitaris macgrigoriæ, *Blyth, J. A. S. B.* xii. p. 910.

Dimorpha auricularis, *Hodgs. J. A. S. B.* xii. p. 940.

Niltava macgrigoriæ, *Gray, Gen. B.* i. p. 264; *id. Cat. Mamm. &c. Nepal Coll. Hodgs.* p. 91; *Blyth, J. A. S. B.* xvi. pp. 124, 473; *id. Cat. B. Mus. A. S. B.* p. 174; *Bp. Consp.* i. p. 319; *Horsf. & Moore, Cat. B. Mus. F. L. Co.* i. p. 289; *Serd. B. Ind.* i. p. 474; *Gray, Hand-l. B.* i. p. 425, no. 4876; *Godw.-Austen, J. A. S. B.* 1870, p. 161; *Hume, Str. F.* 1874, p. 475; *id. Nests and Eggs, Ind. B.* p. 214; *Blyth & Wald. B. Burm.* p. 102; *Hume & Davison, Str. F.* 1878, p. 231.

Niltava vivida, *Hume, Str. F.* 1874, p. 475 (*nec Swinhoe*).

Adult male. General colour above rich purplish blue, the forehead, eyebrow, rump, and upper tail-coverts very brilliant and rich cobalt; down the sides of the neck a transverse streak of bright cobalt; least wing-coverts purplish blue, like the back, rest of the coverts and quills black, edged externally with purplish blue; tail-feathers deep purplish blue, all but the centre feathers black on the inner web; lores, feathers above the eye, sides of face, and entire throat

deep purple; rest of under surface of body cindery grey, slightly washed with purple, ashy whitish on the abdomen and under tail-coverts; under wing-coverts and axillaries pure white; quills blackish below, lighter along the edge of the inner web; "bill black; legs reddish black; iris dark brown" (*Jerdon*). Total length 4·6 inches, culmen 0·4, wing 2·45, tail 2·15, tarsus 0·6.

Adult female. Plain olivaceous brown above, lighter beneath, with the neck-patch of a light lavender-blue.

Young. Blackish; the feathers of the upper surface spotted, and the breast streaked, with ochraceous buff; tail purplish blue; wings black, the feathers externally washed with purple; breast, abdomen, and under wing-coverts pure white, as in the adult.

Hab. Himalayas, extending into the Burmese countries.

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| <i>a.</i> ♂ ad. st. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>b, c, d.</i> ♂ ad. st. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>e.</i> ♀ ad.; <i>f.</i> ♂ juv. sk. | Nepal. | B. H. Hodgson, Esq. [P.]. |
| <i>g, h.</i> ♂ ♀ ad.; <i>i.</i> Juv. sk. | Darjiling. | J. Fotheringham, Esq. [P.]. |

69. CASSINIA.

Cassinia, *Hartl. Rev. et Mag. de Zool.* 1860, p. 82 Type.
C. *fraseri*.
Cf. *Sharpe, Ibis*, 1870, p. 53.

Range. Confined to Africa.

Key to the Species.

- a.* Outer tail-feathers pale orange-rufous towards the tip; upper surface olive-brown, washed with rufous; lower back, rump, and upper tail-coverts chestnut *fraseri*, p. 466.
- b.* Outer tail-feathers white at the ends; upper surface ashy brown, with a very slight tinge of rufous on the rump and upper tail-coverts *finsechi*, p. 467.
- c.* Outer tail-feathers grey, like the rest of the tail; upper surface ashy grey *semipartida*, p. 468.

1. Cassinia fraseri.

Muscicapa fraseri, *Strickl. P. Z. S.* 1844, p. 191; *Allen & Thomps. Exped. Niger*, ii. p. 491; *Hartl. Orn. W.-Afr.* p. 95; *Bouvier, Cat. Ois. Marche* &c. p. 19.

Butalis fraseri, *Bp. Consp.* i. p. 318.

Cassinia rubicunda, *Hartl. Rev. Zool.* 1860, p. 82; *id. J. f. O.* 1861, p. 168; *Sharpe, Ibis*, 1870, p. 54, pl. 2. fig. 1; *id. Cat. Afr. B.* p. 42, no. 398; *Bocour, Orn. Angola*, p. 189; *Sharpe & Bouvier, Bull. Soc. Zool. France*, 1877, p. 307.

Smithornis fraseri, *Gray, Hand-l. B.* i. p. 324, no. 4869.

Smithornis rubicunda, *Gray, t. c. i.* p. 324, no. 4870.

Cassinia fraseri, *Sharpe, Ibis*, 1870, p. 54.

Adult male (type of species). General colour olive-brown, somewhat inclining to rufous-brown, darker on the head; the lower back,

rump, and upper tail-coverts deep orange-chestnut; wing-coverts darker brown, the outer webs olive-brown, with rufescent edges; quills ashy brown, externally olive-brown, with a strong shade of orange-rufous towards the base of the primaries, all the secondaries orange-rufous at the base; tail-feathers brown, the centre ones slightly tipped with whitish, the two next for the most part brown, shading off obliquely into orange-rufous on the outer web, this character more developed on the penultimate and still more on the outermost tail-feather, which is pale rufous, inclining to brown towards the base; sides of face olive-brown, like the head, the ear-coverts streaked with fulvous along the shafts; under surface of body rich orange-rufous, the throat paler and more ashy, the feathers edged with orange-buff; the under wing-coverts pale fawn-colour; quills below ashy brown, the rufous bases to the inner webs forming a very conspicuous patch. Total length 7·3 inches, culmen 0·6, wing 3·8, tail 3·15, tarsus 0·85.

Hab. West Africa: Gaboon and Fernando Po to the Congo.

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| <i>a.</i> ♂ ad. sk. | Fernando Po. | L. Fraser, Esq. [C.]. (Type of species.) |
| <i>b.</i> Ad. sk. | Gaboon. | M. Verreaux. (Type of <i>C. rubicunda</i> .) |
| <i>c.</i> Ad. sk. | Gaboon (<i>R. B. N. Walker</i>). | R. B. Sharpe, Esq. |
| <i>d.</i> ♂ ad. sk. | Massabe, Congo, July 7, 1876. | MM. Lucan and Petit [C.] . |

2. *Cassinia finschi*.

Cassinia finschi, *Sharpe, Ibis*, 1870, pp. 53, 474, pl. 2, fig. 2; *id. Cat. Afr. B.* p. 42, no. 399.

Adult (type of species). Above ashy grey, inclining to rufous on the rump; quills brown, the inner web light rufous at the base, especially on the secondaries, the outer web of the primaries margined with deep rufous; tail dark brown, the two middle feathers light amber-brown, the outer ones for the most part white, brown at the base, and showing a little brown on the outer web, the next for the most part brown, white only towards the tip, while the next have only a white tip; throat, cheeks, and ear-coverts dusky grey, mottled with pale rufous, darker on the latter; rest of under surface of body deep sienna; under wing-coverts for the most part pale rufous, washed here and there with dark brown; bill black; feet light brown. Total length 6·8 inches, culmen 0·55, wing 3·9, tail 3·2, tarsus 0·7.

Hab. West Africa, Gold Coast.

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|----------------------|------------------------------------|---------------------------------------|
| <i>a.</i> Ad. sk. | Fantee. | R. B. Sharpe, Esq. (Type of species.) |
| <i>b, c.</i> Ad. sk. | Fantee (<i>Governor Ussher</i>). | R. B. Sharpe, Esq. |
| <i>d.</i> Ad. sk. | Fantee (<i>Aubinn</i>). | R. B. Sharpe, Esq. |

3. *Cassinia semipartita*.

Muscicapa semipartita, Rüpp. *Neue Wirb.* pl. 40. fig. 1; Gray, *Gen. B.* i. p. 263; Rüpp. *Syst. Uebers.* p. 61, no. 209; Heugl. *Syst. Uebers.* p. 31, no. 299; Antin. *Descr. Ucc.* p. 45.

Butalis semipartita, Bp. *Consp.* i. p. 318.

Cassinia semipartita, Heugl. *Orn. N.O.-Afr.* p. 433; Sharpe, *Ibis*, 1870, p. 433, et 1873, p. 156.

Platystira semipartita, Gray, *Hand-l. B.* i. p. 330, no. 4952.

Adult. General colour above ashy grey, lighter on the lower back and rump; the tail uniform with the back, the shafts of the feathers black, the tips of the outermost narrowly white; wing-coverts like the back, the primaries blackish, externally hoary grey, the inner secondaries like the back; sides of face ashy grey, like the head; the feathers in front of and round the eye whitish; cheeks and under surface of body orange-rufous, including the under wing-coverts and axillaries; quills ashy brown below, greyish along the inner web; "bill blackish; feet dusky lead-colour; iris umber-brown" (*Heuglin*). Total length 7 inches, culmen 0·55, wing 3·55, tail 3·25, tarsus 0·75.

Hab. North-eastern Africa.

a. l. Ad. sk.

White Nile.

Purchased.

A D D E N D A.



Add:— Page 2. **Cochoa viridis.**
b. Sternum. Nepal. B. H. Hodgson, Esq. [P.].

Page 30. **Graucalus melanops.**

Add as synonymus:—

Chouecri aux joues noires, *Hombr. et Jacq. Voy. Pôle Sud*, Atlas,
 pl. 8, fig. 2.
Graucalus melanogenys, *Jacq. et Pucher. Voy. Pôle Sud*, texte, iii.
 p. 67.

Add:— Page 33. **Graucalus javensis.**
c, d. Skeleton. Java. Purchased.

Page 44. **Edoliisoma cærulescens.**

The late Marquis of Tweeddale, shortly before his death, lent me his series of this species, and from this it appears that the character which I relied on for the distinction of the species, viz. the grey rump, is a sign of immaturity, and that the fully adult bird is perfectly black. The “Key to the Species” on p. 42 should therefore be modified as follows:—

- a'*. Black above and below.
- a''*. Plumage glossy black, without any shades
 of green or purple *cærulescens* ♂, p. 44.
- b''*. Reflexions of black plumage purple *nigrum* ♂, p. 45.
- c''*. Reflexions of black plumage green *dispar* ♂, p. 46.

Adult female (Cebu, April 1877. *A. Everett*). Much lighter than the male, having a wash of blackish slate-colour all over the upper surface; the feathers of the rump and upper tail-coverts with slaty-grey edges; wing-coverts like the back; bastard wing, primary-coverts, and quills deep black, the secondaries with slaty-black edges; tail-feathers black, the outer ones with a terminal shade of ashy brown; lores blackish; sides of face and under surface of body dark slate-colour; “bill and legs black; iris dark brown” (*A. Everett*). Total length 10·3 inches, culmen 0·9, wing 4·9, tail 4·5, tarsus 0·9. (*Mus. Marquis of Tweeddale.*)

For *Edoliisoma timoriensis* read *Edoliisoma timoriense*.

Page 55. Add, as an additional species:—

15a. *Edoliisoma mindanense*.

Volvocivora mindanensis, Tweedd. P. Z. S. 1878, part 4.

Adult male (Zamboanga, April 1878, A. Everett; type of species). General colour above light slaty blue, lighter on the rump, and shading off much paler on the upper tail-coverts, which have hoary whitish edgings; wing-coverts like the back, the greater coverts and the inner secondaries externally hoary grey; bastard plumes, primary-coverts, and quills black, with slaty-grey margins and tips to the primaries, the secondaries with broader and lighter grey edgings; tail-feathers black, with a narrow edging of grey at the tip, the two outermost feathers with a terminal spot of grey, larger on the external one; a narrow frontal band, feathers above the eye, sides of face, throat, and fore neck black, shading off on the chest; sides of neck and under surface of body light slaty blue, shading off into paler ashy grey on the lower abdomen, vent, and under tail-coverts; thighs darker slaty grey; under wing-coverts and axillaries like the breast; quills blackish below, the inner webs light grey; "bill and legs black; iris dark brown" (A. Everett). Total length 8·5 inches, culmen 0·85, wing 4·65, tail 3·7, tarsus 0·85. (*Mus. Marquis of Tweeddale*.)

Adult female (Zamboanga, April 1878). Uniform in colour, but differing from the male in being lighter blue-grey, paling into silvery grey on the lower back, rump, and upper tail-coverts, the edges to the greater wing-coverts and secondaries also lighter grey than the back; tail black, slightly tipped with ashy grey, the two centre feathers ashy grey, with black at the ends; under surface of body light ashy grey, the vent and under tail-coverts pearly grey; no black on the forehead or sides of face, excepting a dusky spot in front of the eye; under wing-coverts and axillaries light pearly grey, as also the inner lining of the quills; "iris dark brown" (Everett). Total length 9 inches, culmen 0·85, wing 4·5, tail 3·6, tarsus 0·85. (*Mus. Marquis of Tweeddale*.)

Hab. Island of Mindanao, Philippine archipelago.

Obs. The types of this species, kindly lent to me by the Marquis of Tweeddale, show that it is closely allied to *B. morio*, but that it differs by the characters given above, and by the uniform colour of the female plumage.

Its position in the "Key" (p. 43) would be as follows:—

- a. Under surface uniform below, the breast not paling off lighter towards the under tail-coverts; primaries white on the inner web . . . *morio* ♂, p. 54.
- b. Under tail-coverts pale grey, the abdomen also gradually paler than

the breast; quills grey along the inner web, not white *mindanense*, p. 470.

Lord Tweeddale also told me, shortly before his death, that he had yet another new species of *Edoliisoma* from Luzon.

Add:— Page 65. *Campophaga lugubris*.

v. Bones. Nepal. B. H. Hodgson, Esq. [P.].

Add:— Page 68. *Campophaga neglecta*.

a. ♂ ad. sk. Bankasoon, British Burma, W. Davison, Esq. [C.].
April 29, 1877.

Page 69. *Campophaga polioptera*.

On comparing the above-mentioned female specimen of Mr. Hume's *Trochocivora neglecta* with the female of *C. polioptera* (which is not in very good condition, and therefore was not figured), the latter bird seems rather larger and lighter grey, but a larger series may show that the two species are identical. I compared the male bird of *Campophaga polioptera* with Mr. Hume's description of *T. neglecta*, and separated it on account of the grey wing-coverts, which is a strong feature in my new species. It would not be correct to describe the birds in the Museum as having the median and greater coverts black, edged with the colour of the back, as Mr. Hume's description implies, and therefore the two species may perhaps be quite distinct.

Add:— Page 71. *Pericrocotus speciosus*.

s. Bones. Nepal. B. H. Hodgson, Esq. [P.].

Add:— Page 75. *Pericrocotus flammeus*.

e, f. ♂ ♀ ad. sk. Mahabaleshwar hills. Colonel Sturt [P.].

Add:— Page 76. *Pericrocotus peregrinus*.

y. ♂ ad. sk. Mahabaleshwar hills. Colonel Sturt [P.].
z. ♀ ad. sk. Sambhur Lake, May 22, 1873 R. B. Sharpe, Esq. [P.].
(R. M. Adam).

Add:— Page 79. *Pericrocotus brevirostris*.

v. Bones. Nepal. B. H. Hodgson, Esq. [P.].

Page 91. *Lalage melanoleuca*.

As the female of this species has not yet been described, I add the description of a specimen in the Leyden Museum:—

Adult female. Different from the male. Above delicate grey, the rump paler, the feathers being edged with grey, the upper tail-

coverts more broadly edged with white; least wing-coverts like the back, the rest black, margined with green; the innermost of the median series pure white, as well as the inner greater coverts; the quills black, narrowly bordered with green; the inner secondaries, on the other hand, externally white, forming a long alar bar; quills black, margined with green, the two outermost tipped with white; sides of face and under surface of body white, with grey cross bars, those on the fore-neck small and blackish; under tail-coverts white; under wing-coverts and broad inner web of quills white. Total length 8 inches, culmen 0·9, wing 4·55, tail 3·2, tarsus 0·9. (*Mus. Lugd.*)

Add:— Page 103. *Lalage fimbriata*.

f. Skeleton.

Java.

Purchased.

Page 132. Insert:—

7. *Alseonax mandellii*.

Siphia mandellii, *nobis*, *suprà*. p. 453, note.

As the concluding pages of this Addenda were being written, the Museum acquired, from the collection of duplicates sent home by Mr. Hume to England, a specimen which I have identified as the *Cyornis mandelli* of Hume. The bird is labelled *Cyornis magnirostris* ♀, but of this being a mistake there can be scarcely any doubt.

The species is an *Alseonax*, closely allied to *A. muttui* of Ceylon, but differing in its browner under surface, where the fulvous-brown colour overshadows the whole breast and flanks; whereas in *A. muttui* the breast is white, as well as the abdomen and under tail-coverts, extending also much higher up the breast than in *A. mandellii*.

Page 145.

In the "Key to the Species," in the description of *Platystira peltata*, for chin and rest of under surface of body black, read chin &c. white.

Page 148. Add:—

4. *Platystira mentalis*.

Platystira mentalis, *Bocage*, *Journ. Lisb.* 1879, p. 3.

Adult male. Glossy steel-black, the chin and abdomen white; rump and flanks greyish; wings and tail steel-black; the outer tail-feathers narrowly edged and tipped with white; a supraorbital wattle scarlet; bill and feet black; iris dusky. Total length 5·6 inches, culmen 0·65, wing 4·05, tail 2·55, tarsus 0·8. (*Bocage*.)

Hab. Benguela: Caconda.

This species comes very near to *P. peltata*, Sundev., but appears to be much larger.

Add:— Page 151. **Muscicapa grisola.**

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|------------------------|----------|--------------------|
| <i>d.</i> Skull. | England. | J. Ray, Esq. [P.]. |
| <i>e.</i> Sternum. | England. | J. Ray, Esq. [P.]. |
| <i>f-h.</i> Skeletons. | | Purchased. |
| <i>i.</i> Skeleton. | | Purchased. |

Page 153, add:—

1 *a.* **Muscicapa finschi.**

Muscicapa (Butalis) finschi, *Bocage, Journ. Lisb.* 1879, p. 4.

Adult female. Pale rufescent cinereous, the head distinctly striated; the back more rufescent, with more obsolete striations; rump and upper tail-coverts unspotted; lores, a superciliary streak, and a ring round the eye white; ear-coverts dusky; under surface of body white, the throat and the breast exhibiting dusky spots of an arrow-headed form, the lower abdomen and under tail-coverts slightly tinged with buff, the flanks dusky; wing-coverts and secondary quills dusky blackish, broadly edged with rufous-white; primaries and tail-feathers dusky, edged with pale rufous; bill and feet dusky. Total length 5·7 inches, culmen 0·45, wing 3·15, tail 2·1, tarsus 0·7. (*Bocage.*)

Hab. Caeunda, Benguela.

The affinities of this species are not given by Professor Barboza da Bocage, but it appears as if the bird were not distinctly related to *M. grisola*.

Add:— Page 157. **Muscicapa atricapilla.**

| | | | |
|---------------------|----------|---|------------|
| <i>a.</i> Skeleton. | England. | ● | Purchased. |
|---------------------|----------|---|------------|

Add:— Page 179. **Pratincola rubetra.**

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|------------------------|-------------|-----------------------|
| <i>p-s.</i> Skulls. | S. Germany. | Dr. Günther. |
| <i>t-v.</i> Skeletons. | England. | Purchased. |
| <i>w.</i> Sternum. | England. | J. Ingall, Esq. [P.]. |

Add:— Page 182. **Pratincola macrorhyncha.**

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| <i>a.</i> ♀ ad. sk. | Jodpur, Feb. 3, 1878. | A. O. Hume, Esq. [C.]. |
|---------------------|-----------------------|------------------------|

The acquisition of the above-mentioned specimen shows me that the species is not really allied to the European Wheatear, as its other name *rubetraoides* would suggest. It is very different from all other Stonechats, and comes into the section with white throats, so that the synoptic table on page 179 must be modified as follows:—

b. Chin and throat white, the orange-colour of the chest not extending to the throat.

d. Primary-coverts white, forming a speculum; head and upper surface of body black, with an interrupted collar round the hind neck. . . *insignis*, p. 183.

- b.* Primary-coverts brown or blackish, with narrow fulvous or whitish margins.
a''. Upper tail-coverts fawn-buff or buffy white; upper surface sandy brown, broadly streaked with dark-brown centres to the feathers; eyebrow buffy white; ear-coverts pale sandy brown, streaked with darker brown *macrorhyncha*, p. 182.
b''. Characters as in key *borbonica*, p. 183.
c''. Characters as in key *salar*, p. 184.

Add:— Page 185. **Pratincola rubicola.**

| | | |
|----------------------|-------------|--------------|
| <i>m, n.</i> Skulls. | S. Germany. | Dr. Günther. |
| <i>o.</i> Skeleton. | England. | Purchased. |

Page 216, 9th line from top of page, *read* Spot at the tip of the inner web of the outer tail-feathers white.

Add:— Page 310. **Rhipidura albiscapa.**

| | | |
|---------------------|------------|------------|
| <i>f.</i> Skeleton. | Australia. | Purchased. |
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Page 327, add to **Rhipidura leucothorax**, as a synonym:—

Rhipidura episcopalis, *Ramsay, Pr. Linn. Soc. N. S. W.* ii. p. 371.

•Page 400, add:—

6 *a.* **Cryptolopha flavigularis.**

Abornis flavigularis, *Godw.-Austen, J. A. S. B.* xlvii. p. 19 (1878).

Above ash-grey, purer grey on rump, rather darker on the head; wings pale amber-brown; tail ash-brown, the two outer feathers white on the inner web, the next with a narrow edging of white; lores white; ear-coverts white and grey; chin pure yellow, fading on throat; breast, nape, flanks, and thighs greyish white, whitish on the breast; a very faint yellow tinge on the abdomen; under tail-coverts white; a small patch of yellow on the inner shoulder of the wing; bill dark above, buff below. Wing 1·84, tail 1·8, tarsus 0·67, bill from front 0·3. (*Godwin-Austen*.)

Hab. Sadiya, near Brāhmakhūnd, hills of Eastern Bengal.

This species is referred by Colonel Godwin-Austen to the vicinity of *C. xanthoschista*, but it is much closer to *C. schisticeps*.

Add:— Page 407. **Sisura inquieta.**

| | | |
|---------------------|------------|------------|
| <i>i.</i> Skeleton. | Australia. | Purchased. |
|---------------------|------------|------------|

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* Lettered *Culicipeta* on the Plate by mistake.

